

SURVEY OF THE WORLD AGRICULTURAL DOCUMENTATION SERVICES

Prepared on behalf of
THE FAO PANEL OF EXPERTS ON
„AGRIS,,

(International Information System
for the Agricultural Sciences and Technology)

and of

The Working Group for Agricultural Documentation
and Information of the European Communities

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Commission
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and Information Management,
Luxembourg

November 1973



Food and Agriculture Organization of the United Nations

Organisation des Nations Unies pour l'Alimentation et l'Agriculture

Organizacion de Las Naciones Unidas para la Agricultura y la Alimentacion

DOCUMENTATION CENTRE - CENTRE DE DOCUMENTATION - CENTRO DE DOCUMENTACION

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ABSTRACT

Results are presented of a world survey of secondary documentation services in the fields of agriculture, fisheries, food science and technology and related subjects. Statistical and descriptive data, mostly relating to the year 1971, are given for 124 title and 230 abstract services operating in 41 countries and having a total annual output of 632 000 title citations and 1 137 000 abstracts. Output of title citations by country was highest for the USA with 34 % of the total, followed by France with 17 %, UK 9 %, Netherlands 7 % and Federal Republic of Germany with 6 %. For abstracts, output was highest for the USA with 35 % of the total, USSR 12 %, UK and Czechoslovakia each with 9 %, France 7 %, Federal Republic of Germany 5 % and Netherlands 3 %. 46 % of the total output of abstracts was published in English, followed by 13 % for Russian, 9 % for French and 8 % for Czech. 29 title services and 45 abstract services used computerized data processing methods.

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PREFACE

L'étude des services de documentation agricole existant dans le monde présente une importance particulière dans le cadre de la préparation du Système international d'information sur les sciences et la technologie agricoles (AGRIS) qui est actuellement en cours d'élaboration sous l'égide de la FAO. En effet, les principaux utilisateurs d'AGRIS seront les centres de documentation et les bibliothèques agricoles qui existent actuellement. Ces centres et ces bibliothèques seront aussi appelés à fournir les éléments essentiels de fonctionnement du Système.

C'est la raison pour laquelle dès le début de ses travaux, le Groupe d'experts conviés par le Directeur général à formuler une opinion sur la possibilité d'établir AGRIS, a souhaité qu'un inventaire aussi complet que possible des centres existants soit établi. Ce fut l'objet de la première étude entreprise sous la conduite de M. H. Buntrock par le Centre d'Information et de Documentation des Communautés Européennes (CID), et qui fut publiée sous forme de projet en décembre 1970.

Depuis cette date, le projet AGRIS a progressé d'une manière encourageante puisque le numéro expérimental d'AGRINDEX, destiné à démontrer la possibilité de coopération des points d'entrée pour le Niveau I, a été publié en septembre 1973. La mise sur pied du Niveau I sera l'objet de mises au point et de négociations intensives au cours de l'année 1974 et, dès lors, il était urgent de disposer d'une mise à jour de l'étude préparée par le CID.

L'Organisation des Nations Unies pour l'Alimentation et l'Agriculture (FAO) est donc particulièrement reconnaissante au Centre d'information et de documentation des Communautés européennes, et tout spécialement à M. H. Buntrock et à M. P.J. Boyle, de mettre à la disposition de la communauté internationale la présente édition mise à jour qui servira de base aux travaux ultérieurs.

Raymond Aubrac
Directeur des Affaires générales
et de l'Information, FAO

ACKNOWLEDGMENTS

In a very real sense, this Survey is the collaborative product of many hands, for it could never have been undertaken without the willing cooperation of the many persons and organizations who provided the information on which it is based. We therefore wish to express our gratitude to all those who gave so readily of their time and trouble in completing and returning the Survey questionnaires.

Special thanks are also due to Mr. G. Ferrara of the Commission of the European Communities, Luxembourg, who was responsible for collating and processing much of the data, to the IICA/CIDIA Centro Interamericano de Documentación e Información Agrícola, Costa Rica, which undertook the collection of material for services in Latin America, to Mr. Gnany of FAO, who collected information from many developing countries and from East European and other countries, and to many others who gave freely of their help and counsel.

Finally, we should like to thank the Commission of the European Communities and the Executive Council of the Commonwealth Agricultural Bureaux for permission, support and facilities to carry out the Survey, and the EURATOM Common Research Centre at Ispra, Italy, which undertook the considerable task of setting up the directory for printing.

P.J. BOYLE

H. BUNTROCK

Summary of the principal statistical results of the Survey

The following figures are based mainly on data obtained for the year 1971, but include data for 1972 for a small number of services that began operating in 1972.

354 secondary documentation services dealing with agriculture, fisheries, food science and technology and related subjects and providing a total annual output of 1,77 million references were analysed.

These included 124 title services with a total output of 632 000 titles, and 230 abstract services with a total output of 1 137 000 abstracts. Excluding international services, those analysed were located in a total of 41 countries. 7.4 % (47 000) of the title citations and 5.6 % (64 000) of the abstracts issued were derived from other secondary sources.

59 % of the titles of references and 46 % of abstracts were published in English. 57 % of title services and 66 % of the abstract services, issuing 67 % of the total title citations and 73 % of the total abstracts, provide subject indexes.

29 title services and 45 abstract services employed computerized data processing methods in 1971.

112 title and 201 abstract services published their output in printed journals. 24 title and 54 abstract services issued output on file cards. 4 title and 16 abstract services issued magnetic tapes.

29 title services issuing 24 % of the total output of title citations and 60 abstract services issuing 61 % of the total output of abstracts provide SDI.

57 title services issuing 45 % of the total output of title citations and 123 abstract services issuing 77 % of the total output of abstracts provide retrospective retrieval.

Definitions of the term title citation, abstract and reference are given on p. 15.

1 — INTRODUCTION

1.1 Origins and History

In nearly all countries of the world agriculture is an important, if not the most important, economic activity and in nearly all of them agricultural research is carried out on a greater or lesser scale. Few countries can therefore afford to be ill-informed about developments in the science and technology of agriculture, whether within or outside their own frontiers, and the need for effective documentation services as aids in recording and communicating such information is virtually universal.

There is wide diversity among those in need of such information and the situation is often complicated by differences in language, nationality or political organization. Many countries have therefore been obliged to set up documentation services of their own and, unlike the situation in other disciplines and technologies in which the documentation is generally provided by a relatively small number of large services, the scene in agriculture is notable, if not notorious, for the number and variety of services in existence.

Some of these services cover narrow, others broad subject fields. Some cover the world literature, others may cover only that of a single country. Most run as government services, others are run by professional or academic organizations and some function as commercial ventures. In many cases the same subject area is covered by more than one service and, as the data given in the first edition of this Survey have already indicated, it is reasonable to conclude that the duplication of effort is substantial.

A further obstacle to the general dissemination of information is the high cost of operating documentation services. This has caused them to be concentrated in the developed countries, with the effect that developing countries may find it difficult to afford to buy their output.

It was mainly with these considerations in mind that in October 1969, an *ad-hoc* meeting was held in Rome under the auspices of FAO to review the situation and to consider what scope there might be for rationalization of the documentation scene along collaborative lines. As a result of this meeting, an Advisory Panel of Experts, which included representatives from various major documentation services, was set up with a remit to advise the Director General of FAO on the development of an international information service for agriculture.

In turn, the Advisory Panel set up a Study Group and among the tasks assigned to it was the collection of information on forms of secondary documentation and on the various agricultural documentation services in existence throughout the world. It was from this latter assignment that the present Survey originated.

On the basis of the information provided to it by the Study Group and from its own assessment of the situation, the Advisory Panel recommended that an international information system for agricultural science and technology was both desirable and feasible. FAO then instituted a plan of action to establish the system which is now more familiarly known as AGRIS and which is intended to cover the various fields of agriculture and related subjects within the competence of FAO. The intention is that it will use input provided on a regional or subject basis by national or other specialized centres and will be organized on two levels, as follows :

AGRIS Level I. A comprehensive title service providing current awareness across the whole subject competence of FAO.

AGRIS Level II. A service giving coverage in depth of specific subject areas, probably based on networks of specialized services, centres or facilities, and providing output carrying abstracts and indexing in depth.

In August, 1970, FAO published a Study Team Report (4) setting out a detailed scheme for the components and methodology of AGRIS Level I and outlining recommendations for Level II. Since this time, developmental work to implement the AGRIS proposals has been actively in progress and an experimental issue of the proposed AGRIS I output, named Agrindex, is now available.

In 1969, the main sources of information on agricultural documentation services available to the Study Group were Frauendorfer's Survey of Abstracting Services (1) and The FID List of Abstracting Services (2). Though both were subsequently to prove of great help, neither was able in itself to provide the wide range of up-to-date information sought by the Study Group. It was therefore decided that a new survey would have to be undertaken.

Because the time available was short, the task of collecting the necessary data had to be shared out among the Study Group and much of the information had to be obtained by direct examination of the output of the various services by the members themselves. Criteria to decide which services to include were defined and a standard questionnaire was devised to accommodate the information on each. For the most part, the data in the edition referred to the output of services for the year 1970, though in some cases figures for earlier years were included for the sake of completeness. The task of collating and analysing the data was carried out in the Centre for Information and Documentation (CID) of the European Communities in Luxembourg and the results were published on behalf of FAO in May, 1971 (3).

Because of the constraints of time and facilities under which it was prepared, the first edition could be considered only as an interim presentation based on data known to be incomplete in some respects, though the overall picture presented was a reasonably accurate one. To meet the continuing needs of the AGRIS development programme, it was therefore planned to produce a further and more definitive version of the Survey, and in the present edition this aim has been realized.

The Study Group completed its assignments and was dissolved in June 1970. The task of continuing the Survey then devolved upon the present authors. In contrast to the 1970 edition, the Survey data for the present edition were derived mainly from information provided on questionnaires by the documentation services themselves. The layout of its contents follows broadly that of the 1970 edition, including the arrangement of the analytical section, which is based on the structure used in the questionnaire.

At the time of writing, no reasonably up-to-date and comprehensive source of information on the documentation services in agriculture and related subjects is available. In acknowledgment of this wider need, the descriptive information on the individual service has therefore been printed out in full, instead of being given in tabular form on microfiche as in the first edition. It is thus hoped that in addition to its value for AGRIS, this new edition will find wider use among documentalists, librarians and others generally as a guide to the world documentation services and as a source of comparative data.

1.2 Objectives and Scope

The principal aim of this Survey has been to bring together under one cover as much significant objective information as possible on the secondary documentation services covering agriculture, fisheries, food science and technology and related subject areas.

Two main types of information are presented :

1. Global statistics and summarized comparative information, mostly in tabular form, on the more important outputs and output components and other attributes of the various services, together with a commentary.

2. Straight descriptive information on individual services.

Only those services known to be actually in operation in 1972 have been included in the Survey. Most of the numerical data relating to output, etc. refer to the year 1971, though data for 1972 have of course been used for services that began operating in that year. Wherever possible, the descriptive information on costs, types of output, etc. is based on the most recently available.

The deadline originally set for the receipt of survey data was 30 June, 1972. However, for various reasons, principally delays in the receipt of questionnaires, this had eventually to be postponed to April 1973. Information on the small number of questionnaires that arrived between 15 April and 15 July 1973 could not be included in the statistical analyses, but has been given in the Directory section.

The starting point in identifying candidate services to include was the list of 514 in the first edition, supplemented by help from various individuals and organizations with special regional knowledge. For services covering the environmental sciences, the Kaempfer Report (5) was found extremely useful, though only those services covering aspects relevant to agriculture and related subjects were selected for inclusion in the Survey.

Information is given on 354 services in all, and it seems safe to assume that this must represent a very high percentage of all those eligible for inclusion. 514 services were included in the 1970 edition of the Survey. The lower figure of 354 for the present edition is mainly due to the use of more rigorous and consistently applied selection criteria.

It is, however, possible that a small number, hopefully none of them major, may have escaped the net because their existence was not known to us. A further small number had to be omitted because questionnaire replies for them could not be obtained for various reasons, and a particularly regrettable gap here was the important services operating in the German Democratic Republic.

1.3 Subject Coverage and Classification

In broad terms, the subject area of this Survey includes all aspects of the exploitation of the resources of the biosphere, whether plants, animals or marine life, and their conversion into products for the use of man. The subject area is thus very wide and there are many possible classification schemes that could be devised for it.

The scheme used in the present edition is a much modified version of Frauendorfer's Classification Scheme for the Agricultural Sciences (6) and is set out on p. 3-6 of the questionnaire and in Table 5. Criteria for the choice of subject domains were that they should: (a) be those into which the subject area appeared to fall naturally, (b) where possible correspond to those used by the services themselves, and (c) not be over-detailed and therefore too numerous for the purposes of the questionnaire. Hence the classification largely reflects subject categories in actual use and no special attempt was made to identify subject areas which no services cover.

The core of this classification scheme is built round categories covering general aspects of crop and animal production and protection, together with the production of individual classes of crops and animals. Other core categories are fisheries, food science and technology, forestry and economics. Outside these are various supporting categories such as environmental sciences, human nutrition, land use and conservation, agricultural education, etc.

The main concern of the documentation services operating within the principal core subject areas is with the literature reporting developments in applied science and technology and which, for the most part, can be summed up under the heading of applied biology. The original suite of subject categories was chosen with this emphasis in mind. However, it later became apparent that it would be a significant omission not to include categories to accommodate

the output of certain discipline-oriented services which deal more particularly with fundamental biological sciences. Categories for plant biology and animal biology were therefore added. Similarly, environmental science is somewhat removed from the central subject interest, but was included in recognition of its close involvement with agriculture.

In its final form and excluding plant and animal biology, Field 2.3.3 (d) of the questionnaire contained 67 subject categories to which figures for output by subject could be assigned. Those filling in the questionnaire were asked to treat each output item issued as being attributable to only one of the subject categories given. Thus a service whose target area was plant breeding was asked to give figures for its output only in the category for plant breeding, and not additionally in those for crop plants or other subjects. An exception to this was the services covering the whole field of agriculture. For these, a category for agriculture in general was provided to accommodate global output figures, and they were also asked to give additional figures for their output in individual subject categories.

1.4 Selection of Services

The following were the main criteria in deciding which services to include :

1. All or a significant part of their subject coverage should fall within the target subject area of the Survey.
2. Their main objective should be coverage of the primary literature relating to basic and applied science and technology. Services covering other classes of literature not strictly scientific in nature, e.g. that dealing with agricultural administration and legislation, history, production and other statistics, advice and extension, etc. should be included only where strictly relevant to the subject area of the Survey.
3. Only services providing secondary documentation in significant quantity as a regular output, or those which produce no published output but maintain an in-house data base to which there may be access by permission, should be included.

In accordance with the terms of this last paragraph, publications issuing only reviews of research, lists of research projects, one-off bibliographies and serial publications which give notices of new books or small numbers of highly selected references as an incidental part of their contents, were also excluded.

No hard and fast rule could be laid down as to quantity of output, but the lower limit for the admission of services covering narrow subject areas was set at about 500 references per year for services with a wide-ranging subject scope and about 100 references per year for special services or those with a limited coverage.

1.5 Methods

1.5.1 *The Questionnaire*

The main objectives in designing the questionnaire (see Appendix 1) used for collecting Survey information were the following :

1. It should be able to be completed with the least possible difficulty by the documentation services themselves.
2. It should be applicable to all types of secondary documentation service, irrespective of output form.
3. It should accommodate all the descriptive and statistical information considered necessary for the Survey within the limits of what it was thought reasonable to expect the services themselves to be able and willing to furnish.

Services issuing more than one publication or main product covering different subject areas were asked to fill in separate questionnaires for each. Compared with the relatively simple questionnaire used for the 1970 Survey, that for the present edition was considerably more detailed and thus made correspondingly greater demands on those asked to fill it in. To minimize this difficulty, the questionnaire was entirely recast so that instead of the yes/no format of the first, questions were phrased wherever possible in a form requiring only affirmative answers, mainly as ticks in boxes. At the same time, all questions were phrased in language as simple and unambiguous as possible. Versions in French, German and Spanish were also prepared.¹

The structure of the questionnaire was organized round four main fields dealing respectively with descriptive information, input data (including the extremely important data on subject coverage), data processing methods and (the largest field) output data. Only objective information was sought. Among questions it was decided not to include, mainly as a result of experience with the 1970 Survey, were the average number of words in abstracts and whether the abstracts issued were indicative or informative in nature, details of the staffing of services, and the average delay between the publication of primary documents and their corresponding secondary reference.

1.5.2 *Statistical analysis*

As in the 1970 Survey, the various quantitative and descriptive data were transferred from the questionnaires to punch cards and were then ordered as required and compiled into simple statistical collations by computer. A 2-dimensional matrix of all the possible parameter combinations was constructed and used to select the combinations analysed in Section 2.

2 — RESULTS AND COMMENTARY

2.1 Introduction

The material presented in this part of the report is set out in the same general order of sections as the questionnaire fields. Each section begins with references to relevant questionnaire fields, tables, diagrams and indexes and, where appropriate, the results are compared with those of the 1970 Survey.

The total number of services included in the 1972 Survey is 354. The percentage figures given in the analyses may in some cases be based on figures less than 354 because it was not possible to obtain full returns for all the details asked for. Similarly, for some services there was more than one pertinent category per field, e.g. for output data and form, subject coverage, language, etc. The percentage totals in some cases may thus exceed 100 because the same service may contribute two or more figures to the same column total.

Notes on the country, language and service codes used in the tables are given on p. 15 and in Appendices 1, 2 and 3. In the following sections, the term "title citations" denotes bibliographic citations usually containing only the elements necessary to identify the primary documents to which they refer. They may also be enriched by mini abstracts (sets of keywords) and/or author addresses. The term "abstracts" denotes title citations plus informative or indicative statements giving information on the contents or findings reported in the primary documents from which they are derived. "References" is a general term denoting either title citations or abstracts.

¹ Available from the Commission of the European Communities, General Directorate XIII, Luxembourg.

2.2 Financial organization

(Questionnaire Field 1.2.1; Table 1)

This field corresponds in part to that termed "Sponsors and Owners" in the 1970 Survey. For the 1972 Survey, it was decided to use a separate field (1.2.2) to indicate whether services were under national or multinational control. The term "Financial Organization" was chosen as representing the most realistic common denominator denoting the type of organizational control meant.

In Table 1, which gives details of financial organization in relation to print run, use of computerized data processing methods and output availability arrangements, it is perhaps necessary to stress that the figures given refer to individual services rather than to organizations or centres, which in some cases produce more than one service.

The results of the Survey indicated that 58 % of all services were (a) financed by government and 17 % by (b) professional or industrial organizations, 12 % were (c) commercial enterprises, and only 4.5 % were financed by universities. All combinations of these four categories were also possible, but from the questionnaire replies, only the combinations (a) + (b) and (b) + (c) were of significance and figures only for these combinations are given in Table 1. The results broadly correspond to the findings of the 1970 Survey, but are more accurate and the trends clearer.

The distribution of types of financial arrangement by country shows considerable variations. Almost by definition, only government-financed services exist in the socialist countries, whereas a wide variety of other arrangements coexist in other countries.

2.3 Source of input and number of journals regularly scanned

(Questionnaire Fields 2.1 and 2.2; Table 2)

The figures in Table 2 indicate that 73 % of title services issuing 82 % of the total number of title citations published, and 39 % of abstract services issuing 71 % of the total number of abstracts, derived their input exclusively from the primary literature. In contrast, 6 % of abstract services, representing 9 % of the total number of abstracts published, together with one title service, derived 100 % of their input from other secondary sources, and can thus be regarded as pure repackaging services.

106 services (about 30 % of the total) derived more than 4 % of their output from other secondary sources and, of these, 50 derived between 4 and 15 % from other secondary sources. From the figures given it was calculated that a total of 47 000 title citations (7.4 %) and 64 000 abstracts (5.6 %) are taken from other secondary sources.

Though it is clear that many services derive part of their input from other secondary services, it is perhaps surprising that the overall figures, especially for abstracts, are so low, and that although abstracts are much the more costly to produce, the figures for abstracts are only slightly higher than those for title citations. It is, of course, possible that the Survey figures do not represent the true extent to which secondary services make use of each other's output. The overall percentage figures would also be higher if those services which cover only the literature of a single country or countries, and which therefore would be much less likely to draw on output from other services, were omitted.

In the present Survey it has not been possible to give information on the extent to which the figures for output of abstracts derived from the primary literature include verbatim or only slightly modified authors' summaries or modified versions or translations of abstracts from other secondary sources. It is perhaps worth noting that over recent years there has been a general improvement in the availability and quality of authors' summaries in primary journals and some now even include abstracts plus keywords for indexing specifically for use by secondary services.

Most journal editors now well recognize the importance of authors' abstracts and summaries as an essential contribution of the primary to the secondary documentation, and these summaries are now widely used and welcomed as input by many secondary services.

The lower the figures for utilization of the output of other secondary services, the higher the apparent duplication factor for coverage of the primary literature (see Section 2.6) and this remains true, even if in a less obvious sense, for title citations or, in other words, for pure cataloguing work.

An analysis of the numerical groupings of the numbers of journals regularly scanned by the various services shows that 38 % of the services which answered this part of the questionnaire scan less than 200 journals, 40 % scan 200 — 1 000 and 22 % scan more than 1 000 journals. Lists of journals regularly scanned were available from 230 services.

2.4 Coverage by country and by language

(Questionnaire Field 2.3 and 2.3.2; Tables 3 and 4)

The services analysed here are those whose coverage is confined to the literature of defined geographical or linguistic areas, i.e. the literature of a single country, region or language, or where one main category could be clearly identified. Tables 3 and 4 give figures for these services and their identity in terms of output by country or geographical region and by language. Geographical and language coverage are frequently interrelated and many of the services are therefore common to both tables.

It would seem logical to assume that the coverage of the literature of interest to some of these services dealing only with particular geographical areas or languages would be more complete within its limits than that of services covering a wider spectrum of the literature, and this is likely to be truer for services with geographical rather than linguistic limitations on coverage. Some of these services may therefore prove especially important as potential national or regional units contributing to AGRIS systems.

2.5 Coverage by subject

(Questionnaire Field 2.3.3; Table 5, Index 2)

Among the various types of information sought by the Survey, that on subject coverage and output of references within each subject area is perhaps the most important of all. The data obtained in the present Survey, and which are given in Table 5 and Index 2, represent a considerable advance in accuracy over the 1970 Survey results. For the most part this field of the questionnaire was well answered and only 35 services, most of them small, provided no output figures by subject area.

In answering this field, services were asked to treat each reference in their output as being assignable to a single subject area only. Services covering agriculture in general were asked to give overall figures both for "agriculture in general" and also to partition their output figures among individual target subject areas. 31 % of title services publishing 11 % of the total output of title citations, and 15 % of abstract services publishing 7 % of the total abstracts, indicated that they covered "agriculture in general" and gave no breakdown of their figures into individual subject areas. These figures were relatively low compared with the 1970 Survey, in which nearly half the total output of references had to be assigned to "agriculture, non-specific".

As in the 1970 Survey, both the number of references and number of services operating within the various subject fields show great variation. Figures for output of title citations by subject were highest for "veterinary medicine" (11 %), "other mammals" (10 %), "animal husbandry" (9 %) "animal biology" (7 %) and "crops" (6 %).

The percentage figures for abstracts show rather better balance, with a highest figure of 5.5 % for "veterinary medicine" and 5.4 % for "other mammals". The subject of veterinary medicine is, of course, very large and extends into areas well removed from agriculture, *sensu stricto*. The field "other mammals" includes, among others, laboratory animals, which are perhaps more the province of veterinary medicine than of agriculture proper.

In its original form, the questionnaire contained no subject categories for "plant biology" and "animal biology" and it was decided only at a later stage of the collation of Survey data to include them. For this reason, a proportion of the figures for these categories were assigned elsewhere in the questionnaire and the figures are therefore not as high as they should be.

In field 2.3.3 (d) of the questionnaire, the various subject categories were grouped under main headings, e.g. "Plant production in general", "Crops", "Animal husbandry", "Fisheries" etc. No boxes to accommodate figures for output were provided against these main headings, in the hope that in their absence services would give figures only in the boxes adjacent to the sub-headings. In the event, figures were inserted in some instances against the main headings and should therefore, in principle, be partitioned among the various subheadings under the main headings. The lesson from this, perhaps, is that any future Survey questionnaires should provide only one level of subject category hierarchy for answers.

In the 1970 Survey Report, the view was expressed that it would be desirable to have definitive data on the actual extent to which the primary literature in defined subject areas is covered by the secondary services operating in the same areas, and also the extent to which different services cover the same bibliographic items in the primary literature (i.e. the extent of duplication, nominal estimates for which are given in Section 2.6).

An enquiry on a relatively limited scale was conducted in the USA to obtain information on these points in relation to the *Bibliography of Agriculture* (see BIBAGRBE in the Directory Section). The two reports (7) and (8) containing the results of these studies provided useful, and in some respects unexpected, insights into the operations of the *Bibliography of Agriculture* as a service aiming at a world-wide literature coverage, but more than that, they also indicated the magnitude of the task of obtaining such information on any but a small scale. The provision of information of this kind has therefore been well outside the bounds of feasibility for the present Survey and it is perhaps hardly surprising that no further studies of this kind appear to have been carried out.

For any service, comprehensiveness of coverage is an attribute that can be measured, at least in principle, in absolute terms of the proportion of the total world output of primary documents it gives notice of within its subject coverage. However, for most individual services in a mission-oriented subject field such as agriculture, any consideration of this attribute has to be qualified in terms of what the service aims to cover. Some services included in this Survey (and not only those concerned with fundamental science as such) cover only the literature reporting original scientific developments. Others lay more emphasis on applied and technological aspects, and still others include coverage of extension and semi-popular literature. Much depends on the particular subject coverage and the clientele for which the service is intended.

Furthermore, some services for good reasons may be deliberately selective and include in their output references only what they consider the more worthwhile primary documents, whether on a subject, geographical or linguistic basis, whereas others may be less discriminating and hence more comprehensive.

So far as duplication is concerned, many would argue that even if there is duplication of coverage of a given item in the primary literature, the references they produce may be angled towards different primary subject coverages or particular users and thus may not represent true duplication at all. Similarly, the secondary references produced may themselves differ greatly in nature because of differences in philosophy, clientele or other considerations. Finally, a proportion of the duplication must represent material derived from other secondary services in the interests of increased literature coverage and may thus be eminently defensible.

Despite these difficulties of approach, it nevertheless remains true that there is a real need for objective factual information on these two aspects, firstly to evaluate the adequacy of existing world documentation and to identify problem areas, and secondly to indicate the extent to which there is unnecessary duplication of effort and facilities.

In practice, the eventual realization of a fully developed AGRINDEX title citation data base may offer, as a spin-off, an effective means of answering some of these questions, not least the apparently simple and basic one : how many references does the world output of significant primary documents in agriculture and related fields represent ?

2.6 Types of output, estimates of duplication and provision of author addresses

(Questionnaire Field 4.1; Table 6; Index 2)

Two basic types of output were distinguished in the questionnaire : (a) title citations, consisting of bibliographic data such as authors' names, document titles and names of carrier publication, and (b) title citations plus abstracts (informative, indicative or mini), with or without authors' addresses.

Table 6 lists the possible combinations within the two basic types of output¹. So-called mini abstracts (sets of keywords) are regarded more as a form of title citation enrichment than as abstracts in their own right and have therefore been linked to title citations. The replies indicated that mini abstracts were added more frequently (37 %) to title citations than to abstracts (28 %).

In accordance with the groupings shown in Table 6, a total of 124 title services (35 % of all services) and 230 abstract services (65 % of all) have been analysed, representing an output of 632 000 title citations (36 % of all references) and 1 137 000 abstracts (64 % of all references).

Compared with the 1970 Survey, the number of services, especially abstract services analysed is lower. However, the figure for total output of title citations is about the same, but the number of abstracts is nearly 300 000 higher, mainly because many more answers to this part of the questionnaire were received in the 1972 Survey.

Diagram 1 shows the percentage of the total output of references for the various services arranged in order of decreasing output. The largest service is placed at the foot of the curve nearest the origin, with the next largest services placed next in order along the curve. Reading along the Y axis (percentages of the total number of services) it will be seen that the largest service produces about 15 % of the total output, the 10 largest services (2.8 % of the total number) produce about 45 % (792 000 references) of the total output, 35 services (10 % of the total) publish 67 % and the 100 largest services (28 % of the total) produce 86 % of the total output.

Various estimates have put the total world output of primary documents in agriculture at between 200 000 and 250 000. As has already been mentioned, this figure is a very approximate one. No precise data are available and estimates vary according to where the boundaries of the subject coverage are set. In recent years, the trend has been increasingly to consider agriculture as essentially a branch of applied biology and to regard relevant areas of plant and animal biology as an integral and proper part of the literature of concern to it. This change in emphasis adds substantially to the number of relevant primary documents and, taking into account the general progressive rise in the world output of primary literature, it would seem probable that the overall figure should be revised upward to between 250 000 and 300 000 per annum.

¹ Certain services whose principal output is abstracts gave separate figures for abstracts and title citations in Field 2.3.3 (d). The proportion of their output which consisted of title citations was almost invariably small and it was therefore decided to combine the two figures for the purposes of data analysis and count them all as abstracts. The respective figures are, however, given in the Directory. Similarly, a very small number of services whose principal output is title citations also include a small proportion of abstracts or other enrichment in their output. For the purposes of data analysis all their output was counted as title citations.

Taking 200 000 to 250 000 as the total world output of primary documents, the figure of 1,77 million for the total output of references from all services implies a duplication factor of between 7 and 9, i.e. each primary document appears on average 7-9 times as a reference in the secondary literature. For the total output of 632 000 title citations, the duplication factor is about 3 and for the total output of 1 137 000 abstracts it is 4-6. It must be stressed, however, that these figures need to be viewed with the reservations noted in Section 2.5 in mind.

Author addresses are an important supplementary component of reference and were carried by only 10 % of the output of title citations, compared with 53 % of abstracts. In practice, the proportion of the output carrying author addresses may be appreciably less than 100 % because addresses are normally given only when specified in the primary document, which is not always the case.

2.7 Respective numbers of references prepared and published and cumulative data bases

(Questionnaire Field 2.3.4; Tables 6 and 7)

Some services prepare more references than they actually publish and for retrieval purposes can therefore call on a larger data base than the one they publish. Also, certain services such as in-house data bases and pure repackaging services may have no regularly published output at all, though their data bases may be accessible for search by permission. The Survey replies indicate that about 16 % more references are prepared than are published. However, the same reservations attach to this figure and to the figures for cumulative data bases as are noted at the end of Section 2.8.

Figures for the size of cumulative data bases (i.e. the aggregate total output of references of services since the year they began operating) are given by country in Table 7 and by type of output in Table 6, and also for individual services in the Directory Section. This information was included in the Survey in recognition of its special importance for retrospective retrieval facilities. The Survey figures indicate that the total number of title citations cumulated in the files of agricultural documentation services is 7.5 million and of abstracts 20.8 million.

2.8 Services and outputs in relation to publishing countries

(Questionnaire Fields 1.2, 1.2.2, 2.3.3 and 2.3.4; Table 7; Index 1)

Table 7 gives absolute figures and percentages for the number of title and abstract services, their output and the cumulative number of title citations and abstracts in their data bases, arranged according to country of publication.

Services from a total of 41 individual countries were analysed. The countries with the greatest output of abstracts were the USA with 35 % of the total, the USSR with 12 %, the UK and Czechoslovakia each with 9 %, France with 7 %, the Federal Republic of Germany with 5 % and the Netherlands with 3 %.

The countries with the greatest output of title citations were the USA with 34 %, France with 17 %, the UK with 9 %, the Netherlands with 7 % and the Federal Republic of Germany with 6 %. Services controlled by two or more countries (classified as international for the purposes of the Survey) published 12 % of the total output of abstracts and 9 % of the title citations.

The order of combined output of title citations plus abstracts were 35 % of the total for the USA, 11 % for France, 10 % for international services, 9 % for the USSR and the UK, 6 % for Czechoslovakia and 5 % for the Federal Republic of Germany.

These figures are broadly similar to those obtained in the 1970 Survey, except that the USA occupies a much more prominent position due to the greater number of services identified in the USA.

Further confirmation is given for the high output figures for Czechoslovakia reported in the 1970 Survey. Because of the excellent co-operation of most east European countries, the figures for their output in the 1972 Survey are much more complete than in the 1970 Survey.

The countries with the largest cumulative number of references in their data bases are, in decreasing order : USA, the Netherlands, Japan, Czechoslovakia, UK, France and the Federal Republic of Germany. The figures for cumulative data base should not, however, be taken too literally because this part of the questionnaire was not always answered accurately and in others cases (e.g. Japan) no distinction was made between references of AGRIS interest and those which were not.

2.9 Data handling methods

(Questionnaire Field 3; Tables 1, 8 and 9)

The number of mechanized services (i.e. those using paper tapes, punch cards, etc. for sorting, without further electronic data processing) is very small. In contrast, the number of services employing electronic data processing methods¹ has increased markedly since the 1970 Survey. All the evidence indicates that this increase is still continuing and that according to the questionnaire replies, about 20 more services will have computerized their operations in 1973.

Table 8 shows that in 1971, 29 title services (23 % of all title services) and 45 abstract services (20 % of all abstract services) were computerized and accounted for nearly 50 % of the total output of references, compared with only 23 % in 1969.

Table 9 gives a breakdown of computerized services by country and includes the relevant service codes. 20 % of all computerized services are located in the USA, 18 % in the Federal Republic of Germany, 14 % each in the UK and in international organizations, and 9 % in the Netherlands.

Table 1 shows that computerized data processing methods were used by 44 % (7) of the 16 university financed services, 32 % (14) of the 44 commercially financed services, and 16 % (34) of the 207 government-financed services.

2.10 Language of reference titles

(Questionnaire Field 4.2; Table 10)

Table 10 presents in simplified form the number of services and their output in relation to the languages in which titles are published. Where titles are published in more than one stated language, they are counted as if they were separate references. Where titles are published in either one or another language, only the main language has been indicated; usually this will be that of the issuing country. Where only the language of the original primary document was used, this was recorded separately. 54 services (15 % of the total) publishing 95 000 references (5 % of the total output) provide titles only in the original language, whereas 149 services (42 % of the total) publishing 114 million references (64 % of the total output) provide titles both in

¹ Some services indicated on the questionnaires that their data processing was only in part computerized, in some cases for index compilation only. Because it was not possible to go into greater detail on these points in the questionnaire and because there always remain some parts of the processing sequence that are manual, it was decided to classify as computerized all those services that use computers for any part of their data processing.

the original language and in translation. In practice, these categories are rendered less clear-cut by the fact that many services leave document titles untranslated if they are in one or more major languages and translate them only if they are not.

In all, titles were recorded as being published in 21 languages, the largest proportion (59 %) being in English, followed by 11 % for French, 10 % for Russian and 5 % each for Czech and German. The figures for French and Russian are similar to those obtained in the 1970 Survey, while that for English is considerably higher.

2.11 Language of abstracts

(Questionnaire Field 4.3; Table 11)

Abstracts issued in more than one language were counted as many times as there were languages. However, the language of publication of abstracts was not recorded in every case. Of those for which answers were obtained, 46 % were published in English, 19 % in Russian, 14 % in French, 12 % in Czech and 7 % in German. The figures given in Table 11 differ from these in being calculated on the basis of all services, and not only those that answered this part of the questionnaire. Because of the absence of figures for the German Democratic Republic (1970 Survey figures : 17 abstract services, output 59 650 abstracts), the figure for the German language is probably only about half what it ought to be.

2.12 Output arrangement

(Questionnaire Field 4.4; Table 12)

Table 12 gives a breakdown of the number of services according to the method used to arrange their output. Because some services use more than one method, the column total for percentages of the total number of services adds up to rather more than 100 %. Results indicated that 83 % of services arranged their output by subject and, of these, 64 % arranged it by their own, usually hierarchical, classification system and 18 % by Universal Decimal Classification (UDC). 16 % of services arranged their output alphabetically by author, 4 % by titles of documents and 5 % by other methods, e.g. chronologically, publishing organization, etc.

2.13 Provision of indexes, index arrangement and number of keywords

(Questionnaire Fields 4.5.1 to 4.5.4; Tables 13 and 14)

Subject indexes were provided by 57 % of title services and by 66 % of abstract services, representing 67 % of the total title citations and 73 % of the total abstracts published. Among types of subject index, the most frequent was the conventional alphabetical, used for 17 % of the title citation and 35 % of the abstract output, followed by KWOC (Keyword-out-of Context) used for 19 % of the title citation and 30 % of the abstract output, and KWIC (Keyword-in-Context) used for 20 % of the title citation and 4 % of the abstract output. The distinction between KWIC and KWOC indexes may not have been clearly made by all services, but the figures indicate the current importance of these two closely related types of index.

The proportion of services that issue subject indexes is slightly higher than in the 1970 Survey, though the respective figures for number of references published are much the same.

About two thirds of the services surveyed, representing about the same proportion of the total output of references, issue some kind of subject index.

Table 14 shows the numerical distribution of average number of index terms per reference. The distribution is relatively uniform over the range of 1 to 15 keywords per reference, with a flat peak between 3 and 8 keywords. 32 title services and 88 abstract services issuing 270 000

title citations (43 % of the total) and 301 000 abstracts (27 % of the total) indicated that they used a controlled vocabulary. Of these services, 54 % use manual and 21 % use computerized data processing methods.

The proportion of services issuing author indexes is slightly lower than that for subject indexes, but the overall figures are roughly similar. The figures given for taxonomic and geographical indexes apply only to those services that issued these separately. It should be borne in mind that many services incorporate an appreciable proportion of taxonomic and geographical entries into their subject indexes proper. Some services did not indicate clearly whether these entries were or were not placed in separate indexes, but where clear answers were obtained, the results indicated that geographical indexes were issued by 10 % of services representing 8 % of the total title citation and 13 % of the total abstract output. Taxonomic indexes were issued by 5.6 % of services, representing 9 % of the total title citation and 9 % of the total abstract output.

2.14 Output form

(Questionnaire Field 4.6; Tables 15 and 16)

Table 15 shows the numbers and proportions of services providing output in the various carrier media. 90 % of title services and 87 % of abstract services publish output in the form of a serial publication (i.e. journal), and 19 % of title services and 23 % of abstract services issue file cards.

The figures for file cards do not include the output from the small number of services that publish references in loose leaf format for conversion into file cards.

Output on magnetic tapes was provided by 4 title services issuing 148 630 title citations (23.5 % of the total output of title citations) and by 16 abstract services issuing 166.190 abstracts (14.6 % of the total output of abstracts). These services are identified by code in Table 16.

These figures correspond very closely to those obtained in the 1970 Survey. This is a somewhat surprising result in view of the subsequent increase in the number of computerized services. The explanation is that not all services producing magnetic tapes make them available; these services have been counted in the figures for number of services, but have not contributed to the figures for output.

2.15 SDI¹ and retrospective retrieval² services

(Questionnaire Field 4.7; Tables 17 and 18)

Of particular interest are those services which provide ancillary outputs in the form of SDI profiles and which undertake retrospective retrieval searches on request. About one quarter of the title services (29, issuing 24 % of the total title citations) and one quarter of the abstract services (60, issuing 61 % of the total abstracts) stated that they provided an SDI service. About half the title services (57, issuing 287 000 title citations and 45 % of the total title citation output) and half the abstract services (123, issuing 875 000 abstracts and 77 % of the total abstract output) indicated that they provided a retrospective retrieval service on request. The total cumulative data base available for search by services providing retrospective retrieval was more than 25.5 million references (90 % of the total).

¹ Selective Dissemination of Information (SDI). For the purposes of this Survey, SDI is taken to mean the provision to individuals or groups of users, regularly updated sets of references relating to narrow subject profiles. The output is a selective repackaging of the current file of references in a data base and the subject profile is usually defined in terms of sets of keywords nominated by the users.

² Retrospective retrieval. A form of one-off output in which the whole or selected parts of a cumulative data base are searched for references on a specific, usually narrow, subject area. Like SDI, it is a form of repackaging of a selected part of a data base, but unlike SDI the output is not, by definition, progressively updated with time.

Table 18 shows data processing methods in relation to the provision of ancillary information services and compares the extent to which manual and computerized methods are used.

Of services that provide SDI, 59 % issuing 31 % of the total output of references used manual methods of data handling, while 34 % issuing 67 % of the total output used computerized methods. Respective figures for services providing retrospective retrieval are 66 and 47 % for those using manual methods and 28 and 51 % for those using computerized methods.

These figures reflect the tendency for manual methods to be commonest among smaller services and computerized methods to be relatively more frequent among the larger ones.

It should perhaps be pointed out that though a service employing computerized methods and which also provides SDI and retrospective retrieval may not necessarily use computer methods for generating these outputs. The effective use of computer techniques for index and file search and retrieval is both difficult and expensive to achieve.

49 services (55 %) providing SDI and 88 services (49 %) providing retrospective retrieval indicated that they used a controlled vocabulary. However, the distinction between using and not using a controlled vocabulary may be more apparent than real for many services, in that many subject indexes embody a very substantial degree of control in their components and structure from one year to the next.

2.16 Print run ¹

(Questionnaire Field 4.9; Table 19)

Figures for print run are given in Table 19 as an indication of the extent to which services are actually used; they should, however, be regarded with reservation. Services financed by professional or industrial associations and by commercial enterprises produce the highest average numbers of copies per service, with a figure of nearly 2000, compared with an average of 1 200 copies for services financed by government and 370 for the small number financed by universities.

The highest print run figures in Table 19 mostly refer to primary journals that carry secondary documentation only as part of their contents and are not strictly comparable to those for the secondary documentation services proper.

2.17 Availability

(Questionnaire Field 4.10.1; Table 1)

78 services indicated that their output was available free of charge and 259 that it was for sale only. Table 2 shows the respective proportions of services within each availability class in relation to financial organization. About one third of the services financed by government and by universities were available free.

2.18 Provision of primary document copies and translations

(Questionnaire Field 4.10.2; Table 20)

64 % of services (226) stated that they were prepared to supply on demand full-size copies of primary documents, 25 % would supply microcopies (microfilm or microfiche) and 42 % provided a library loan service.

87 services stated that they could provide translations of primary documents and specified the translation languages. However, it would perhaps be wiser to regard positive answers here as being more indicative of a within-house capability to translate, rather than meaning that a regular translation service was provided for all comers.

¹ Average number of copies printed per issue.

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TABLES AND DIAGRAMS

**Table 1 — Financial organization in relation to print run,
use of computerized data processing methods, and output availability arrangements**
(Sections 2.2, 2.9, 2.17)

Financial organization	Title services + abstract services		Average print run per service	Services using computerized data processing methods		Availability arrangements		
	No.	% of total no. of services		No.	% of services in each financial organization category	Availability	No. of services	% of services in each financial organization category
Government	207	58.47	1 230	34	16.43	free for sale	63 133	30.43 64.25
University	16	4.52	370	7	43.75	free for sale	6 10	37.50 62.50
Professional or industrial association	61	17.23	1 990	16	26.23	free for sale	6 52	9.84 85.25
Commercial enterprise	44	12.43	1 870	14	31.82	free for sale	3 41	6.82 93.18
Government + professional association	10	2.82	1 250	2	20.00	for sale	10	100
Professional association + commercial enterprise	14	3.95	1 070	1	7.14	for sale	13	92.86

**Table 2 — Proportion of the input of services
derived from other secondary sources**
(Section 2.3)

Proportion of input from other secondary sources	Title services		Abstract services		Title citations		Abstracts	
	No.	% of total no. of title services	No.	% of total no. of abstract services	No.	% of total no. of title citations	No.	% of total no. of abstracts
Nil	91	73.39	135	58.70	543 231	82.07	811 410	71.35
100 % from secondary sources	1	0.81	14	6.09	400	0.07	103 267	9.08
1-24 %	12	9.68	57	24.78	24 626	3.90	166 099	14.61
25-99 %	18	14.52	26	11.30	40 327	6.38	48 318	4.25

**Table 3 — Output and identity of services whose coverage is limited
to a specific country or geographical region
(Section 2.4)**

Country covered		No. of title services	No. of title citations	Service code	No. of abstract services	No. of abstracts	Service code
Code	Full name						
AA	Africa	1		AFRSOSBA			
AR	Argentina	1	2 000	BIBARABU			
AU	Australia	1	2 124	AUSSCIME	1	1 000	CSIABSME
BG	Bulgaria				1	1 800	REFBYBSO
BO	Bolivia	1	260	BIBAGBLA	1	127	TESGRPLA
BR	Brazil	4		AMABIBRI BIBBRBRI BIBBRCRI BIBBRZRI	3	1 000	BIBCONRI RESTESPI SUDENERE
CA	Canada	1		CANADIOT			
CH	Switzerland	1	330	BIBSCNBE			
CO	Colombia	1		INDAGCME			
CR	Costa Rica	1	3 000	BIBAGCTU			
CS	Czechoslovakia	1	2 200	CESLEBPR	1	1 060	AGRLICPR
DT	Fed. Rep. of Germany	2	2 810	HINVEGGE INFVETHA	4	2 830	BETNALBO IDKAGLBO IWLKURKO LITBULBH
EY	Europe	2	5 100	BULEUCBR LANASEWA	2	1 600	REFRAUBO ZEIAGAST
FR	France	1	8 000	BULSIAPA	4	1 475	BIBAGRAN BULSIRPA CHAAGRPA ETURURPA
HU	Hungary	1	2 000	MAGMEBBU	1	600	HUNAGRBU
IG	International	1	4 500	FAUDOCRO			
IN	India	1	5 000	INDAGIPA	2	4 420	BIBINFBA INDSCADE
LC	Latin America	5	10 720	BIBAGLTU CATCORTU CONILTU INDLATTU SERREFSA	1	50	ARCLANCA
MA	Morocco				1	4 880	INDRETRA

Table 3 (continuation)

Country covered		No. of title services	No. of title citations	Service code	No. of abstract services	No. of abstracts	Service code
Code	Full name						
MX	Mexico	1	1 300	BIBNAAME			
NA	Nicaragua	1	1 380	BIBAGNTU			
NL	NETHERLANDS	1	2 000	PUDBULWA			
OE	Austria	1	200	SCHOSGWI			
PE	Peru	1		BIBAGPLI			
PK	Pakistan				1	288	PAKSCAKA
PM	Panama	1	1 397	BIBAGATU			
PO	Poland				1	370	POLECBWA
SC	Scandinavia	1	400	LANKOLUP			
SF	Finland	1	1 700	HELYLMHE			
SU	USSR	1	81 000	SELLISMO			
SW	Sweden	2	2 750	FORFOIST VETSUEST			
TH	Thailand	1	550	LISSCTBA		130	
TR	Turkey				1	600	KEYTUSAN
UK	United Kingdom				1	350	JOUANEOX
US	USA				2	3 100	AMEBIAWA DISABSAN
UY	Uruguay	1					
VE	Venezuela	2	160	AGRTRRMA INDBIAMA			
YU	Yugoslavia	2	6 540	BIBJUCBE BIOINFLJ	1	2 080	(BIOINFLJ) BULSCAZA
ZA	South Africa	1	200	CSIRREPR	1	460	AGRRESPR

Table 4 — Output and identity of services whose coverage is limited to specific language
(Section 2.4)

Language covered		No. of title services	No. of title citations	Service code	No. of abstract services	No. of abstracts	Service code
Code	Full name						
BU	Bulgarian				1	1 800	REFBYBSO
CZ	Czech	1	2 200	CESLEBPR	1	1 060	AGRLICPR
EN	English	8	9 063	AFRSOSBA AUSSCIME CANADIOT COMFLAWA CONREELO CSIRREPR FAIABSNE INDAGIPA	13	9 451	AGRRESPR AMEBIAWA AMEJOEDA BIBINFBA CSIABSME DISABSAN FERABSMU FORFICOT JOUAMVCH JOUANEOX PAKSCAKA RICJOUWA TECINSGR
FI	Finnish	1	1 700	HELYLMHE			
FR	French	1	8 000	BULSIAPA	4	1 475	BIBAGRAN BULSIRPA CHAAGRPA ETURURPA
GE	German	3	3 000	HINVEGGE INFVETHA SCHOSGWI	7	5 550	BETNALBO IDKAGLBO IDKLEVMU IWLKURKO KARLABPR LITBULBH SCHLAEDU
HU	Hungarian	1	2 000	MAGMEBBU	1	600	HUNAGRBU
PO	Polish				1	370	POLECBWA
PT	Portuguese	4		AMABIBRI BIBBRBRI BIBBRCRI BIBBRZRI	3	1 000	BIBCONRI RESTESPI SUDENERE
SC	Scand.lgs.	1	400	LANKOLUP			
SP	Spanish	11	15 777	AGRTRRMA BIBAGATU BIBAGBLA BIBAGCTU BIBAGNTU BIBAGPLI BIBAGUMO BIBARABU	1	127	TESGRPLA

Table 4 (continuation)

Language covered		No. of title services	No. of title citations	Service code	No. of abstract services	No. of abstracts	Service code
Code	Full name						
				BIBNAAME CATCORTU CONILTU INDAGCME INDBIAMA INDLATTU			
SR	Serbian	1	3 180	BIBJUCBE			
SS	Swedish	2	2 760	FORFOIST VETSUEST			
TH	Thai	1	550	LISSCTBA		130	
TK	Turkish				1	600	KEYTUSAN

Table 5 — Number and output of services in relation to subject field
(Section 2.5)

Subject field		Title services		Abstract services		Title citations		Abstracts	
Code	Full name	No.	% of total no. of title services	No.	% of total no. of abstract services	No.	% of total no. of title citations	No.	% of total no. of abstracts
A	Agriculture in general	39	31.45	35	15.22	67 800	10.73	79 940	7.03
B	Agricultural literature, documentation and library services	7	5.65	9	3.88	184	0.03	3 549	0.31
C	Agricultural research and research methodology	15	12.10	17	7.39	607	0.10	2 258	0.20
D	Agriculture of warm climates. Tropical agriculture	10	8.06	8	3.48	6 934	1.10	7 589	0.67
E	History and geography of agriculture			2	0.87			85	0.01
E 1	History of agriculture	8	6.45	9	3.91	6 797	1.08	994	0.09
E 2	Geography of agriculture	4	3.23	9	3.91	2 581	0.41	1 093	0.10
F	Agricultural education	2	1.61	1	0.43	75	0.01	15	
F 1	Education, teaching	10	8.06	11	4.78	300	0.05	819	0.07
F 2	Extension and advisory work	8	6.45	7	3.04	227	0.04	392	0.03
G	Agricultural administration and legislation	17	13.71	10	4.35	7 366	1.17	572	0.05
H	Agricultural economics and rural sociology	8	6.45	16	6.96	12 232	1.94	30 507	2.68
H 1	Agricultural policy, macro-economics	24	19.35	23	10.00	4 843	0.77	7 652	0.67
H 2	Microeconomics (economics of production)	15	12.10	23	10.00	1 990	0.31	4 649	0.41
H 3	Rural sociology	18	14.62	13	5.65	7 427	1.18	1 824	0.16
K	Plant production in general	9	7.26	9	3.91	25 714	4.07	9 667	0.85
K 1	Agricultural meteorology and climatology	20	16.13	17	7.39	4 461	0.71	3 593	0.32
K 2	Soil science. Soil conditions in general	34	27.42	32	13.91	5 580	0.88	11 428	1.00
K 3	Tillage and soil cultivation	15	12.10	16	6.96	993	0.16	1 972	0.17
K 4	Plant nutrition and fertilizers	28	22.58	34	14.78	6 796	1.08	15 407	1.35
K 5	Plant breeding	21	16.94	21	9.13	6 765	1.07	15 428	1.35
K 6	Plant biology	7	5.65	3	1.30	52 089	8.24	9 081	0.80
L	Plant protection	10	8.06	13	5.65	4 493	0.71	15 699	1.38
L 1	Diseases and non-biogenic plant injuries	26	20.97	25	10.87	18 244	2.89	18 457	1.62
L 2	Pests	30	24.19	30	12.04	29 250	4.63	15 700	1.38
L 3	Weeds	26	20.97	20	8.70	4 740	0.75	7 470	0.66
M	Crops	8	6.45	14	6.09	35 546	5.63	23 374	2.06
M 1	Cereals	26	20.97	24	10.43	9 089	1.44	14 621	1.29
M 2	Pulses	18	14.52	16	6.96	1 938	0.31	3 476	0.31
M 3	Roots and tubers	16	12.90	15	6.52	1 102	0.17	1 986	0.17

Table 5 (continuation)

Subject field		Title services		Abstract services		Title citations		Abstracts	
Code	Full name	No.	% of total no. of title services	No.	% of total no. of abstract services	No.	% of total no. of title citations	No.	% of total no. of abstracts
M 4	Fibres	20	16.13	16	6.96	2 702	0.43	3 139	0.28
M 5	Oilseeds	19	15.32	21	9.13	1 355	0.21	5 355	0.47
M 6	Sugar crops	21	16.94	21	9.13	2 379	0.38	5 104	0.45
M 7	Vegetables	22	17.74	23	10.00	4 748	0.75	7 994	0.70
M 8	Temperate fruits and nuts	21	16.94	30	12.04	3 348	0.53	14 579	1.28
M 9	Tropical fruits and nuts	15	12.10	15	6.52	1 135	0.18	7 614	0.67
M 10	Stimulants and medicinals	21	16.94	18	7.83	4 978	0.79	12 142	1.07
M 11	Ornamentals	12	9.68	19	8.26	993	0.16	5 866	0.52
M 12	Other industrial crops (rubber, etc.)	9	7.26	11	4.78	520	0.08	1 673	0.15
N	Herbage crops, fodder crops, grasslands and rangelands	25	20.16	29	12.61	3 298	0.52	9 725	0.86
O	Forestry	6	4.84	9	3.91	5 809	0.92	8 124	0.71
O 1	Wood production	25	20.16	26	11.30	14 073	2.23	12 983	1.14
O 2	Wood technology and wood industries	17	13.71	19	8.26	9 889	1.56	9 053	0.80
P	Animal husbandry	7	5.65	6	2.61	56 445	8.93	17 991	1.58
P 1	Animal breeding and genetics	23	18.55	19	8.26	7 795	1.23	11 743	1.03
P 2	Animal nutrition	28	22.58	37	16.09	6 731	1.07	19 369	1.70
P 3	Veterinary medicine and hygiene	44	35.48	49	21.30	72 145	11.42	62 375	5.48
P 4	Animal biology	4	3.23	4	1.74	46 950	7.43	30 216	2.66
Q	Domestic animals	9	7.26	12	5.22	100	0.02	326	0.03
Q 1	Equidae	11	8.87	8	3.48	1 641	0.26	1 150	0.10
Q 2	Cattle and other large ruminants	24	19.35	25	10.87	12 383	1.96	14 700	1.29
Q 3	Sheep, goats and other small ruminants	15	12.10	17	7.39	1 679	0.27	3 352	0.29
Q 4	Pigs	18	14.52	21	9.13	5 388	0.85	5 941	0.52
Q 5	Other mammals (fur bearers, laboratory animals, etc.)	16	12.90	19	8.26	64 687	10.24	61 131	5.38
Q 6	Poultry	18	14.52	23	10.00	9 966	1.58	12 432	1.09
Q 7	Insects (bees, silkworms, etc.)	18	14.52	16	6.96	20 942	3.31	23 081	2.03
R	Fisheries	4	3.23	5	2.17	14 848	2.35	11 300	0.99
R 1	Freshwater fisheries and fish culture	18	14.52	20	8.70	5 357	0.85	4 577	0.40
R 2	Sea fisheries	14	11.29	15	6.52	2 756	0.44	2 576	0.23
S	Game and hunting	8	6.45	11	4.78	1 795	0.28	2 120	0.19
T	Land development and conservation	2	1.61	9	3.91	59	0.01	2 327	0.20
T 1	Land use, surveys and development	18	14.52	12	5.22	8 875	1.40	1 768	0.16
T 2	Soil and water conservation	15	12.10	14	6.09	9 876	1.56	7 508	0.66

Table 5 (continuation)

Subject field		Title services		Abstract services		Title citations		Abstracts	
Code	Full name	No.	% of total no. of title services	No.	% of total no. of abstract services	No.	% of total no. of title citations	No.	% of total no. of abstracts
U	Machinery and buildings	4	3.23	3	1.30	323	0.05	9 731	0.86
U 1	Agricultural machinery and equipment	27	21.77	22	9.57	9 793	1.55	22 444	1.97
U 2	Farm buildings	12	9.68	17	7.39	1 846	0.29	4 378	0.38
V	Food science and technology	15	12.10	16	6.96	19 994	3.16	19 350	1.70
V 1	Food microbiology, hygiene and toxicology	18	14.52	29	12.61	5 490	0.87	13 821	1.22
V 2	Food engineering and packaging	12	9.68	21	9.13	6 255	0.99	18 276	1.61
V 3	Alcoholic and non-alcoholic beverages	15	12.10	23	10.00	1 773	0.28	11 179	0.98
V 4	Fruit, vegetable and nut products	11	8.87	22	9.57	2 295	0.36	7 541	0.66
V 5	Cocoa and chocolate products	6	4.84	10	4.35	333	0.05	1 769	0.16
V 6	Sugars, syrups, starches and candy	11	8.87	18	7.83	1 162	0.18	8 512	0.75
V 7	Cereals and bakery products	12	9.68	19	8.26	1 535	0.24	8 203	0.72
V 8	Fats, oils and margarine	11	8.87	18	7.83	849	0.13	8 209	0.72
V 9	Milk and dairy products	20	16.13	23	10.00	2 509	0.40	8 877	0.78
V 10	Eggs and egg products	13	10.48	15	6.52	884	0.14	1 301	0.11
V 11	Fish and marine products	10	8.06	17	7.39	1 638	0.26	3 471	0.31
V 12	Meat, poultry and game	13	10.48	18	7.83	1 777	0.28	6 630	0.58
V 13	Food additives, spices, condiments and prepared, synthetic and dietary foods	12	9.68	18	7.83	1 358	0.21	6 720	0.59
W	Human nutrition	21	16.94	24	10.43	19 566	3.10	7 052	0.62
Y	Environmental science	41	33.06	41	17.83	25 878	4.10	53 100	4.67

Table 6 — Number of services, output, and number of references in cumulative data base in relation to output types (Sections 2.6, 2.7)

Output	Services		References published		Cumulative No. of references data base	
	No.	% of total no. of services	No.	% of total no. of references	No.	% of total no. of data base
Title citations only	72	20.34	337 412	19.07	4 922 000	17.36
Title citations + mini abstracts	31	8.76	231 905	13.11	820 000	2.89
Title citations + author addresses	17	4.80	58 030	3.28	1 617 000	5.70
Title citations + mini abstracts + author addresses	4	1.13	4 566	0.26	166 000	0.59
Total title citations	124	35.03	631 913	35.72	7 525 000	26.54
Abstracts	136	38.41	525 475	29.70	11 576 000	40.82
Abstracts + mini abstracts	12	3.39	12 070	0.68	667 000	2.35
Abstracts + author addresses	67	18.93	297 467	16.81	8 376 000	29.54
Abstracts + mini abstracts + author addresses	15	4.24	302 243	17.08	214 000	0.75
Total abstracts	230	64.97	1 137 255	64.28	25 833 000	73.46
Total title citations + abstracts	354	100	1 769 168	100	28 358 000	100

Table 7 — Number and output of services by country of publication
(Sections 2.7, 2.8)

Publishing country		Title services		Abstract services		Title citations		Abstracts		Cumulative No. of title citations + abstracts in data base	
Code	Full name	No.	% of total no. of title services	No.	% of total no. of abstract services	No.	% of total no. of title citations	No.	% of total no. of abstracts	No.	% of total no.
AR	Argentina	2	1.61	1	0.43	2 950	0.47	200	0.02		
AU	Australia	1	0.81	1	0.43	2 124	0.34	1 000	0.09		
BE	Belgium			5	2.17			6 950	0.62	18 500	0.07
BG	Bulgaria	2	1.61	4	1.74	16 030	2.54	7 615	0.68		
BO	Bolivia	1	0.81	1	0.43	260	0.04	127	0.01		
BR	Brazil	6	4.84	4	1.74	870	0.14	1 250	0.11	65 796	0.23
CA	Canada	2	1.61	1	0.43	1 300	0.21	180	0.02		
CH	Switzerland	2	1.61			1 430	0.23				
CO	Colombia	1	0.81	1	0.43					8 500	0.03
CS	Czechoslovakia	1	0.81	14	6.09	2 200	0.35	96 920	8.52	3 657 000	12.90
DK	Denmark			3	1.30			1 550	0.14	2 000	0.01
DT	Germany (FR)	11	8.87	39	16.96	39 610	6.26	51 990	4.57	1 435 000	5.06
EI	Ireland			1	0.43			300	0.03	1 400	
ES	Spain	1	0.81	2	0.86	5 300	0.84	2 900	0.26		
FR	France	16	12.90	21	9.13	110 160	17.42	76 295	6.71	2 383 000	8.40
GB	United Kingdom	11	8.87	32	13.91	59 410	9.40	102 364	9.00	2 465 750	8.69
HU	Hungary	2	1.61	5	2.17	7 845	1.24	11 800	1.05	164 000	0.58

Table 7 (continuation)

Publishing country		Title services		Abstract services		Title citations		Abstracts		Cumulative No. of title citations + abstracts in data base	
Code	Full name	No.	% of total no. of title services	No.	% of total no. of abstract services	No.	% of total no. of title citations	No.	% of total no. of abstracts	No.	% of total no.
IG	International	23	18.55	41	17.83	54 823	8.68	130 816	11.50	1 845 900	6.51
IN	India	3	2.42	3	1.30	5 480	0.87	7 695	0.68	53 500	0.19
IT	Italy	1	0.81			40	0.01			302 500	1.07
JA	Japan	1	0.81	1	0.43	6 700	1.06	12 500	1.11	4 032 000	14.22
KS	South Korea	1	0.81			6 635	1.05				
MA	Morocco			1	0.43			4 880	0.43	10 450	0.04
MX	Mexico	1	0.81			1 300	0.21			30 000	0.11
NL	Netherlands	8	6.45	11	4.78	46 375	7.33	37 350	3.28	4 804 100	16.94
NO	Norway			2	0.86			910	0.08	1 000	
OE	Austria	1	0.81	3	1.30	6 000	0.95	5 550	0.49	334 500	1.18
PE	Peru	1	0.81							7 750	0.03
PK	Pakistan			1	0.43			288	0.03	17 900	0.06
PO	Poland			2	0.86			3 980	0.35	5 200	0.02
PT	Portugal	2	1.61			800	0.13			12 600	0.04
RU	Rumania			1	0.43			16 750	1.49	170 000	0.60
SF	Finland	1	0.81			1 700	0.27				
SU	USSR	1	0.81	2	0.86	25 000	3.95	141 000	12.40		

Table 7 (continuation)

Publishing country		Title services		Abstract services		Title citations		Abstracts		Cumulative No. of title citations + abstracts in data base	
Code	Full name	No.	% of total no. of title services	No.	% of total no. of abstract services	No.	% of total no. of title citations	No.	% of total no. of title abstracts	No.	% of total no.
SW	Sweden	4	3.23	1	0.43	5 442	0.86	300	0.03	36 000	0.13
TH	Thailand			1	0.43			680	0.06	2 700	0.01
TR	Turkey			1	0.43			600	0.05	7 000	0.02
US	USA	11	8.87	23	10.00	215 289	34.05	396 725	34.88	6 370 000	22.46
UY	Uruguay	1	0.81							1 140	
VE	Venezuela	2	1.61			160	0.03			20 600	0.07
YU	Yugoslavia	1	0.81	2	0.86	3 180	0.50	5 430	0.48	77 200	0.27
ZA	South Africa	2	1.61	1	0.43	3 900	0.62	460	0.04	19 400	0.07

**Table 8 — Number and output of services using mechanized
and computerized data processing methods**
(Section 2.9)

Data processing method	Title services		Abstract services		Title citations		Abstracts		Cumulative no. of title citations + abstracts in data base	
	No.	% of total no. of title services	No.	% of total no. of abstract services	No.	% of total no. of title citations	No.	% of total no. of abstracts	No.	% of total no.
Mechanized	7	5.65	11	4.78	24 070	3.81	12 535	1.10	167 300	0.55
Computerized	29	23.39	45	19.57	312 187	49.40	573 712	50.45	12 678 500	44.71

**Table 9 — Country of publication and identity of services
using computerized data processing methods**
(Section 2.9)

Publishing country		Title services † abstract services		Service codes
Code	Full name	No.	% of total no. of computerized services	
BE	Belgium	1	1.35	SUGINATI
BG	Bulgaria	1	1.35	REFBYBSO
BR	Brazil	3	4.05	BIBBRBRI BIBBRCRI BIBBRZRI
CA	Canada	1	1.35	CANADIOT
DT	Germany, Fed. Rep.	13	17.57	BIBFOHRE BIBKEKLE BIBPFLBE DOCGEOBO IDKAGGST IDKBEAST IDKTIPST INFGRFFR INRVETHA KARDOEGI KARLABFR MILCHWKI NDIRELDU
ES	Spain	1	1.35	RESARCMA
FR	France	4	5.41	BULSIGPA BULSINPA FRUUMPA REVFRCPA
GB	United Kingdom	10	13.51	CENPAILO GEOABSNO MICABALO MICABBLO PACABSLE PESTDOLU TOXBIBBE VETDOCLO VIRABSLO ZOORECLO
IG	International	10	13.51	APIABSCH BULBIIPA CATCORTU CHIVETZO FAODOCRO FOOSCTSH INDLATTU INTLADGE INTNUIWI WORINSDE

Table 9 (continuation)

Publishing country		Title services + abstract services		Service codes
Code	Full name	No.	% of total no. of computerized services	
JA	Japan	1	1.35	CURBISTO
MA	Morocco	1	1.35	INDRETRA
MX	Mexico	1	1.35	BIBNAAME
NL	Netherlands	7	9.46	ASHGUBAM EXME..AM
RU	Rumania	1	1.35	REVREFBU
SW	Sweden	1	1.35	POLLOOST
US	U.S.A.	16	21.62	ABSIAWNE ABSENTPH ABSHEEPH ABSMYCPH AMEBIAWA BIBAGRBE BIOABSPH BIOINDPH CALFORBE CHEABSCO CURCOAPH CURINCNE INDMEDBE NUCSCAOA SELWARWA TOBABSRA
ZA	South Africa	2	2.70	CSIRREPR CURLIWR
Total		74	100 %	

**Table 10 — Number and output of services in relation to languages
in which the titles of references are published**
(Section 2 10)

Language of title citations		Title services + Abstract services		Title citations + Abstracts	
Code	Full name	No.	% of total no. of services	No.	% of total no. of references
OR	Original language only	54	15.25	94 861	5.36
OR	Original language + translation	149	42.09	1 139 295	64.40
AF	Afrikaans	2	0.56	660	0.04
CZ	Czech	13	3.67	94 260	5.33
EN	English	157	44.35	1 036 423	58.58
FI	Finnish	1	0.28	1 700	0.10
FR	French	41	11.58	194 105	10.97
GE	German *)	47	13.28	88 580	5.01
HU	Hungarian	5	1.41	12 400	0.70
IT	Italian	1	0.28	3 500	0.20
JA	Japanese	1	0.28	12 500	0.71
KO	Korean	1	0.28	6 635	0.38
NE	Dutch	1	0.28	5 600	0.32
NO	Norwegian	1	0.28	500	0.03
PO	Polish	1	0.28	3 600	0.20
PT	Portuguese	8	2.26	1 000	0.06
RO	Romanian	1	0.28	16 750	0.95
RS	Russian	6	1.69	169 860	9.60
SN	Slovenian	1	0.28	4 630	0.26
SP	Spanish	22	6.21	16 652	0.94
SR	Serbian	1	0.28	3 180	0.18
SS	Swedish	1	0.28	1 550	0.09
TK	Turkish	1	0.28	600	0.03

*) German Federal Republic only.

**Table 11 — Number and output of services in relation to languages
in which abstracts are published
(Section 2.11)**

Language of abstracts		Abstract services		Abstracts	
Code	Full name	No.	% of total no. of abstract services	No.	% of total no. of abstracts
BU	Bulgarian	3	1.30	5 800	0.51
CZ	Czech	12	5.22	92 060	8.09
DA	Danish	3	1.30	1 550	0.14
EN	English	122	53.04	528 630	46.47
FR	French	35	15.22	105 500	9.28
GE	German *)	43	18.70	57 000	5.01
HU	Hungarian	4	1.74	10 800	0.95
JA	Japanese	1	0.43	12 500	1.10
NE	Dutch	4	1.74	16 300	1.43
NO	Norwegian	2	0.87	900	0.08
PO	Polish	1	0.43	3 600	0.32
PT	Portuguese	4	1.74	1 250	0.11
RO	Romanian	1	0.43	16 750	1.47
RS	Russian	5	2.17	144 000	12.66
SN	Slovenian	1	0.43	4 630	0.41
SP	Spanish	9	3.91	4 500	0.40

*) German Federal Republic only

Table 12 — Number of services in relation to arrangement of output
(Section 2.12)

Output arrangement	Title services + Abstract services	
	No.	% of total no. of services
By subject, no system specified	228	64.41
By subject, UDC	62	17.51
By titles of the documents	9	2.54
By titles of journals	15	4.24
By author	57	16.10
By other arrangements	17	4.80

Table 13 — Number and output of services in relation to index arrangement
(Section 2.13)

Indexes and index arrangement	Title services		Abstract services		Title citations		Abstracts	
	No.	% of total no. of title services	No.	% of total no. of abstract services	No.	% of total no. of title citations	No.	% of total no. of abstracts
<i>Subject indexes</i>								
KWOC	39	31.45	112	48.70	104 331	16.51	397 909	34.99
KWIC	6	4.84	8	3.48	122 557	19.39	338 093	29.73
No arrangement specified	13	10.48	9	3.91	123 206	19.50	48 030	4.22
Alphabetical	13	10.48	23	10.00	71 789	11.36	45 727	4.02
Total	71	57.25	152	66.09	421 883	66.76	829.759	72.96
No subject index provided	53	42.75	78	33.91	210 030	33.24	307 496	27.04
<i>Taxonomic index</i>	6	4.84	14	6.09	55 300	8.75	332 293	29.22
<i>Geographical index</i>	12	9.68	22	9.57	48 741	7.71	145 323	12.78
<i>Author index</i>	69	55.65	118	51.30	395 228	62.54	739 214	65.00

**Table 14 — Numerical distribution of average number
of subject index terms per reference**
(Section 2.13)

No. of subject index terms per reference	Title services + Abstract services	
	No.	% of total no. of services
1 — 1.9	14	8.81
2 — 2.9	16	10.06
3 — 3.9	26	16.35
4 — 4.9	27	16.98
5 — 5.9	23	14.47
6 — 7.9	23	14.47
8 — 9.9	6	3.72
10 — 15	22	13.84
More than 15	2	1.26
Total	159 (*)	100

*) 159 out of the 223 services which specified that they issue subject indexes answered this part of the questionnaire.

Table 15 — Number and output of services in relation to output carrier medium
(Section 2.14)

Output form	Title services		Abstract services	
	No.	% of total no. of title services	No.	% of total no. of abstract services
Printed journal	112	90.34	201	87.39
Normally sorted punched cards	—	—	2	0.87
File cards	24	19.35	54	23.48
Microforms (microfilm, microfiche)	2	1.61	5	2.17
Magnetic tapes	4	3.23	16	6.96

Table 16 — Services providing magnetic tapes
(Section 2.14)

Title services	Abstract services
BIBAGRBE	ABSHEEPH
EXME 37 AM	AMEBIAWA
INDMEDBE	APIABSCH
POLLOOST	BULSIGPA
	BULSINPA
	CHEABSCO
	CURBISTO
	EXMEO 5 AM
	EXME 17 AM
	EXME 29 AM
	EXME 30 AM
	EXME 46 AM
	FOOSCTSH
	INTLADGE
	INTNUIWI
	SELWARWA

**Table 17 — Number, output and cumulative data base
of services providing SDI and retrospective retrieval outputs**
(Section 2.15)

Supplementary output provided	Title services		Abstract services		Title citations		Abstracts		Cumulative no. of title citations + abstracts in data base	
	No.	% of total no. of title services	No.	% of total no. of abstract services	No.	% of total no. of title citations	No.	% of total no. of abstracts	No.	% of total no. of data base
SDI	29	23.39	60	26.09	150 381	23.80	694 218	61.04	18 335 000	64.66
Retrospective retrieval	57	45.97	123	53.48	287 449	45.49	875 074	76.95	25 641 950	90.42

**Table 18 — Data processing methods, number and output of services providing SDI
and retrospective retrieval outputs**
(Section 2.15)

Supplementary output provided	Data processing methods	Title services + abstract services		Title citations + abstracts	
		No.	% of total no. of services providing SDI or retrieval	No.	% of total no. of references of SDI or retrieval services
SDI	Manual	52	59.09	246 201	31.33
	Mechanized	6	6.82	10 317	1.31
	Computerized	30	34.09	529 381	67.36
	Total	88	100	785 899	100
Retrospective retrieval	Manual	117	65.73	539 907	46.85
	Mechanized	11	6.18	23 235	2.02
	Computerized	50	28.09	589 181	51.13
	Total	178	100	1 152 323	100

Table 19 — Numerical grouping of print run figures
(Section 2.6)

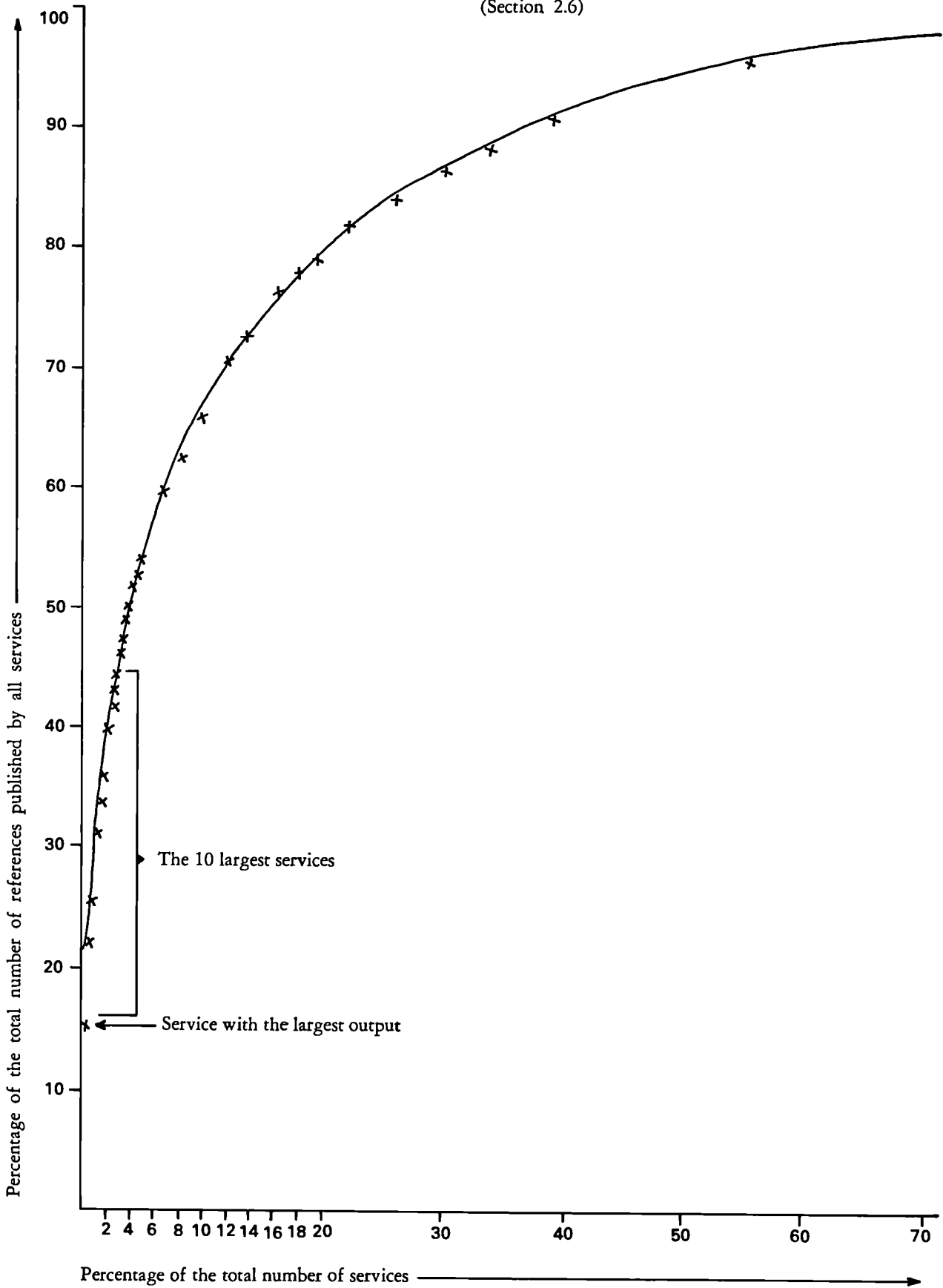
Numerical grouping	Title services		Abstract services	
	No.	% of total title services *)	No.	% of total abstract services *)
More than 10 000	—	—	2	1.07
5 000 — 9 999	2	2.30	8	4.28
2 000 — 4 999	14	16.09	31	16.58
1 500 — 1 999	1	1.15	24	12.83
1 001 — 1 499	8	9.20	21	11.23
1 000	9	10.34	20	10.70
800 — 999	11	12.64	11	5.88
600 — 799	9	10.34	9	4.81
400 — 599	11	12.64	19	10.16
200 — 399	7	8.05	20	10.70
100 — 199	9	10.34	18	9.63
Less than 99	6	6.90	4	2.14

*) As far as print run figures are given.

Table 20 — Number of services providing document copies and library loans
(Section 2.18)

Supplementary services	Title services + abstract services	
	No.	% of total no. of services
Full-size copies	226	63.84
Microcopies	87	24.58
Library loans	147	41.53

Diagram 1. Output in relation to number and size of services
(Section 2.6)



DIRECTORY OF SERVICES

NOTES FOR USERS

Each service in the Directory is identified by an 8-letter code which, in nearly all cases, is made up of the first three letters of the first significant word of its title, followed by the first two letters of the second word, the first letter of the third, and finally by the first two letters of the name of the city in which the service is located. Each service is located alphabetically by its code in the Directory. This arrangement provides a convenient key to the contents of the Directory and also made it possible to add or delete entries at any time during the course of data collation and analysis without altering the coding system or order of contents.

The information presented for each service is arranged in a standardized form explained below.

English translations are provided for the titles of nearly all services not in the English language. These translations are given purely for the guidance and information of readers and have no other status.

Language codes are given in Appendix 3.

The sequence of data elements is as shown below :

- ①— Reference code (see above explanation), in bold face.
- ②— Title of the service in original language, in upper case, bold face [1.1a] (t).
- ③— Title of the service, in English translation, in parentheses, upper case.
- ④— Output form [4.6].
- ⑤— Periodicity of issue [4.8b].
- ⑥— Availability or subscription price per year, respectively [4.10.1].
- ⑦— Year of the first issue [1.1b].
- ⑧— Name and address of issuing or sponsoring organization [1.2] in cursive, followed by name and address of publisher [1.3] where necessary.
- ⑨— Subjects covered by the service [2.3.3].
- ⑩— Total number of title citations and/or abstracts in 1971 [2.3.3], output data [4.1], language of abstracts [4.3] and of titles [4.2].
- ⑪— Output arrangement [4.4].
- ⑫— Subject index (type and average number of keywords per item, in parentheses). Geographical, taxonomic and author index; periodicity and cumulation of indexes. Controlled vocabulary [4.5].
- ⑬— Source of input and number of journals scanned; political or linguistic limitation of input where applicable, in parentheses [2.3.1 and 2.3.2].
- ⑭— Cumulative data base [2.3.4c] and indication if service is computerized [3].
- ⑮— Additional services [4.7 and 4.10.2].

¹ Number of the pertinent field in the questionnaire in square brackets.

TYPICAL ENTRIES

- ②— **AGRARMETEOROLOGISCHE BIBLIOGRAPHIE** AGRBIBOF—①
 ③— **(AGRXMETEOROLOGICAL BIBLIOGRAPHY)**
 ④—
 ⑤— Journal; 1 x; DM 25,- to 35,- per volume; 1950 -
 ⑥—
 ⑦—
 ⑧— *Deutscher Wetterdienst, Zentralamt, D-605 Offenbach a.M., Frankfurter Str. 135, F.R. Germany.*
- ⑨— Micrometeorology and microclimatology; influence of weather and climate on soil, plants and animals (including pests and diseases) and on farming.
- ⑩— 1 200 abstracts in GE or EN plus 250 title citations. Titles in GE or EN.
- ⑪— Output arranged by subject (own classification).
- ⑫— Subject index (alphabetical, 4 keywords) and author index, annually. Controlled vocabulary.
- ⑬— Input source : 50 % from primary journals, 50 % from secondary sources (in EN, FR and GE mostly).
- ⑭— Cumulative data base : 31 500 references.

- ②— **AGRICULTURAL LITERATURE OF CZECHOSLOVAKIA** AGRLICPR—①
LITTERATURE AGRICOLE TCHECOSLOVAQUE
LANDWIRTSCHAFTLICHE LITERATUR DER TSCHECOSLOWAKEI
SEL'SKOCHOZJAJSTVENNAJA LITERATURA CECHOSLOVAKII
- ④—
 ⑤— Journal; 2 x; exchange; 1961 -
 ⑥—
 ⑦—
- ⑧— *Ústav vědeckotechnických informací (UVTI), [Institute for Scientific and Technical Information] Praha 2 — Vinohrady, Sleská, Czechoslovakia.*
- ⑨— Agriculture in general.
- ⑩— 3 000 references produced, 240 abstracts in EN, FR, GE and RS plus 820 title citations published. Titles in EN, FR, GE and RS.
- ⑪— Output arranged by subject (UDC).
- ⑫— Subject index (alphabetical) and author indexes, annually.
- ⑬— Input source : 150 primary journals (Czechoslovakia only).
- ⑭— Cumulative data base : 266 000 references.
- ⑮— Additional services : retrospective retrieval, full-size and microcopies, library loans, translations from CZ, SL into EN, GE, FR, RS and vice versa.

ABSTRACTS OF AGRICULTURAL AND HORTICULTURAL ENGINEERING**ABSAGHBE**

Card service (in-house data base only); irregularly.

National Institute of Agricultural Engineering, Wrest Park, Silsoe, Bedford, MK45 4HS, UK.

Engineering as applied to agriculture and horticulture. Buildings for agriculture and horticulture.

2.500 abstracts in EN and 400 title citations. Titles in EN.

Output arranged by subject (UDC) and author

Subject index (alphabetical, 2 keywords).

Input source: 250 primary journals, 10% from secondary sources.

Cumulative data base: 40.000 references.

Additional services: SDI, retrospective retrieval.

ABSTRACTS OF AIR AND WATER CONSERVATION LITERATURE**ABSAIWNE**

Journal and computer print-out; 12 x; 1929 -

Central Abstracting and Indexing Service, American Petroleum Institute, 1271 Avenue of the Americas, Room 795, New York, N.Y. 10020, U.S.A.

Pollution problems of the petroleum and petrochemical industries.

50 abstracts in EN of AGRIS interest. Mini abstracts (30 keywords). Titles in EN.

Output arranged by numerical sequence.

Subject index (alphabetical) and author index, each issue and 6-monthly. Controlled vocabulary.

Input source: 200 primary journals (primarily USA), 5% from secondary sources.

Cumulative data base: 2.000 references. Computerized.

Additional services: SDI, retrospective retrieval, full-size copies.

ABSTRACTS FROM CURRENT SCIENTIFIC AND TECHNICAL LITERATURE**ABSCUSLE**

Journal; 12 x; £50,-; 1947 -

British Food Manufacturing Industries Research Association, Randalls Road, Leatherhead, Surrey, UK.

Analytical, physical, microbiological, biochemical, nutritional and toxicological aspects of food; pest control; food products in general; processing, machinery, packaging, storage; British patents, selected non-British patents.

2.250 abstracts in EN. Titles in original language and EN.

Output arranged by subject (own classification).

Subject index (alphabetical, 3 keywords), annually. Controlled vocabulary.

Input source: 350 primary journals; 5% from secondary sources.

Additional services: full-size copies, translations (for members only) from most major languages into EN.

ABSTRACTS OF ENTOMOLOGY**ABSENTPH**

Journal; 12 x; \$ 75.-; 1970 –

Biosciences Information Service of Biological Abstracts, 2100 Arch Street, Philadelphia, Pennsylvania 19103, USA.

All aspects of insects and arachnids.

16.500 abstracts in EN plus 6.900 title citations. Titles in original language and EN. Author addresses.

Output arranged by numerical sequence.

Subject index (KWOC, 11 keywords), taxonomic, CROSS and author index, each issue and annually.

Input source: 100% derived from Biological Abstracts and BioResearch Index (see also BIOABSPH and BIOINDPH).

Cumulative data base: 20.000 references. Computerized.

ABSTRACTS OF HEALTH EFFECTS OF ENVIRONMENTAL POLLUTANTS**ABSHEEPH**

Journal; 12x ; \$ 95.-; 1972 –

Magnetic tapes, lease \$ 500,- per year.

Biosciences Information Service of Biological Abstracts, 2100 Arch Street, Philadelphia, Pennsylvania 19103, USA.

Occupational health and industrial medicine, chemicals or substances in the environment in relation to human health, toxicological effect of pollutants on humans, lower vertebrates as indicators of substances toxic to man, vertebrates and invertebrates as vectors in food chains, analytical methods for the examination of biological tissues and fluids.

12.000 abstracts in EN. Titles in EN. Author addresses.

Output arranged by subject (own classification).

Indexes: Biosystematic, Biological Abstracts Subjects in Context (BASIC), Computer Rearrangement of Subject Specialities (CROSS) and author index, each issue.

Input source: 100% from secondary sources (derived from Biological Abstracts and MEDLARS).

Computerized.

ABSTRACTS OF MYCOLOGY**ABSMYCPH**

Journal; 12 x; \$ 60.-; 1967 –

Biosciences Information Service of Biological Abstracts, 2100 Arch Street, Philadelphia, Pennsylvania 19103, USA.

All aspects of fungi and lichens.

9.200 abstracts in EN plus 4.000 title citations. Titles in original language and EN. Author addresses.

Output arranged by numerical sequence.

Subject index (KWOC, 11 keywords) taxonomic index and author index, each issue and annually.

Input source: 100% derived from Biological Abstracts and BioResearch Index (see also BIOABSPH and BIOINDPH).

Cumulative data base: 60.000 references. Computerized.

ACCESSIONS BULLETIN**ACCBULLO**

Journal

International Coffee Organisation, 22 Berners Street, London W1P 4DD, UK.

Economic aspects of coffee

1800 title citations. Mini abstracts. Titles in original language

Output arranged by subject (own classification) and by geographic area.

Subject index, annually. Controlled vocabulary.

Input source: primary literature.

Additional services: retrospective retrieval.

ACRIDOLOGICAL ABSTRACTS**ACRABSLO**

Journal; irregular; free; 1950 –

Centre for Overseas Pest Research, College House, Wright's Lane, London W8 5SJ, UK.

All aspects of orthopteran control including related aspects of biology, ecology, physiology, behaviour, taxonomy, etc.

3.350 references produced, 450 abstracts in EN and 50 title citations of AGRIS interest published.

Titles in original language and/or EN. Author addresses.

Output arranged by author.

Subject index (alphabetical, 4-6 keywords) and author index every 1.000 references.

Input source: 400 primary journals, 15% from secondary sources.

Cumulative data base: 30.000 references.

Additional services: SDI, retrospective retrieval, full-size copies, library loans.

AFRICAN SOILS - SOLS AFRICAINS**AFRSOSBA**

1951-

*In-house data base only.**Bureau Interafricain des Sols - Interafrican Bureau for Soils, B.P. 1352 - Bangui, Central African Republic.*

Soil sciences and plant nutrition, plant production.

Title citations. Mini abstracts. Titles in EN and FR. Author addresses.

Output arranged by subject (own classification) and author.

Subject index (alphabetical).

Cumulative data base: 10.000 references.

Additional services: SDI, full-size-copies, translations from EN into FR and vice versa.

**AGRARMETEOROLOGISCHE BIBLIOGRAPHIE
(AGROMETEOROLOGICAL BIBLIOGRAPHY)**

AGRBIBOF

Journal; 1 x; DM 25,- to 35,- per volume; 1950 -

Deutscher Wetterdienst, Zentralamt, D-605 Offenbach a.M., Frankfurter Str. 135, F.R. Germany.

Micrometeorology and microclimatology; influence of weather and climate on soil, plants and animals (including pests and diseases) and on farming.

1.200 abstracts in GE or EN plus 250 title citations. Titles in GE or EN.

Output arranged by subject (own classification).

Subject index (alphabetical, 4 keywords) and author index, annually. Controlled vocabulary.

Input source: 50% from primary journals, 50% from secondary sources (in EN, FR and GE mostly).

Cumulative data base: 31.500 references.

**AGRICULTURAL LITERATURE OF CZECHOSLOVAKIA
LITTÉRATURE AGRICOLE TCHECOSLOVAQUE
LANDWIRTSCHAFTLICHE LITERATUR DER TSCHECHOSLOWAKEI
SEL'SKOCHOZJAJSTVENNAJA LITERATURA CECHOSLOVAKII**

AGRLICPR

Journal; 2 x; exchange; 1961 -

Ustav vedeckotechnických informací (UVTI), [Institute for Scientific and Technical Information] Praha 2 – Vinohrady, Sileská 7, Czechoslovakia.

Agriculture in general.

3.000 references produced, 240 abstracts in EN, FR, GE and RS plus 820 title citations published. Titles in EN, FR, GE and RS.

Output arranged by subject (UDC).

Subject index (alphabetical) and author indexes, annually.

Input source: 150 primary journals (Czechoslovakia only).

Cumulative data base: 266.000 references.

Additional services: retrospective retrieval, full-size and microcopies, library loans, translations from CZ, SL into EN, GE, FR, RS and vice versa.

AGRICULTURAL METEOROLOGY. RECENTLY PUBLISHED PAPERS

AGRMERAM

Journal; 6 x; Dfl. 194.-; 1964 -

Elsevier Scientific Publishing Company, P.O. Box 211, Amsterdam, Netherlands.

Agricultural meteorology, including aspects related to the production of agricultural and horticultural crops and forestry, artificial climates, climate and weather factors, instrumentation, irrigation, micrometeorology and biophysics, pest and disease aspects, environmental pollution, etc.

2.000 title citations. Titles in EN.

Output arranged by subject (own classification).

Input source: primary literature.

AGRICULTURAL RESEARCH - LANDBOONAVORSING

AGRRESPR

Journal; 1x; free (by arrangement only); 1959 –

Department of Agricultural Technical Services, Private Bag x 116, Pretoria, South Africa.

Agriculture in general.

460 abstracts in EN. Titles in EN and AF. Author addresses.

Output arranged by subject (own classification) and author.

Subject index (alphabetical) and author index, annually.

Input source: primary literature (Republic of South Africa primarily).

Additional services: data retrieval.

**AGRARIODALMI SZEMLE
(AGRICULTURAL LITERATURE REVIEW)**

AGRSCZBU

Journal; 12 x; Ft 520.-; 1958 -

Mezőgazdasági és Élelmezésügyi Minisztérium Információs Központja (AGROINFORM), Budapest I, Attila ut 93, Hungary.

Agriculture in general.

40.000 references produced, 1.625 abstracts in HU and 1.625 title citations published. Titles in original language and HU.

Output arranged by subject (own classification).

Subject index (alphabetical, 2–3 keywords) and author index, annually.

Input source: 1.600 primary journals.

Additional services: SDI, retrospective retrieval, full-size and microcopies, library loans, translations into HU.

**AGRONOMIA TROPICAL – REVISTA DEL CENTRO DE INVESTIGAZIONES AGRONOMICAS
Citas Bibliograficas del Exterior, Citas Bibliograficas Venezolanas, Resumenes Bibliograficos.**

AGRTRRMA

(TROPICAL AGRONOMY – REVIEW OF THE CENTRE FOR AGRONOMIC RESEARCH. Foreign Bibliographic Citations, Venezuelan Bibliographic Citations, Bibliographic Summaries)

Journal; 6 x; BS 40.-; 1950 -

Centro de Investigaciones Agronomicas, Maracay, Venezuela.

Agriculture in general.

450 title citations. Titles in original language (160 from Venezuela in SP).

Output arranged by author.

Input source: primary literature.

AIR POLLUTION ABSTRACTS**AIRPOARE**

Journal; 12 x; \$ 18,-; 1969 –

Air Pollution Technical Information Centre (APTIC), Research Triangle Park, North Carolina 27711, USA.

Air pollution, including mission sources, control methods, methods of measurement, effects on humans, plants, livestock and materials, economic aspects, standards and criteria, legal, administrative and social aspects.

9.000 abstracts in EN. Titles in original language and EN.

Output arranged by subject (own classification).

Subject index (alphabetical) and author index, each issue.

Input source: primary literature, including patents.

Additional services: retrospective retrieval.

AIR POLLUTION TITLES**AIRPOTPE**

Journal; 6 x; \$ 15,-; 1965 –

Center for Air Environment Studies, the Pennsylvania State University, University Park, Pennsylvania, USA.

Air pollution and related subjects.

3.000 title citations in EN. Titles in EN. Author addresses.

Output arranged by author.

Subject index (KWIC,4,5 keywords), each issue and annually.

Input source: 1.000 primary journals.

Computerized.

**AMAZONIA – BIBLIOGRAFIA
(AMAZONIA – BIBLIOGRAPHY)****AMABIBRI**

Printed bibliography; irregular; 1963 -

Instituto Brasileiro de Bibliografia e Documentação, av. General Justo, 171/4^o Andar, Rio de Janeiro, GB-Brazil.

Agriculture, economics, industry, botany, zoology, social sciences, etc. of the Amazonian region.

Title citations. Titles in original language (mainly SP).

Output arranged by subject (UDC). Subject index (alphabetical) and author index.

Input source: primary literature concerning the Amazonian region, Brazil.

Data base: 13.400 references.

Additional services: retrospective retrieval, full-size and microcopies, library loans.

AMERICAN BIBLIOGRAPHY OF AGRICULTURAL ECONOMICS

AMEBIAWA

Journal; 6 x; \$ 10,-; 1971 -

Magnetic tapes.

American Agricultural Economics Documentation Center, Room 1505-S, US Department of Agriculture, Washington, D.C. 20250, USA,

Agricultural economics.

350 abstracts in EN plus 550 title citations. Mini abstracts (5 keywords). Titles in EN.

Output arranged by subject (own classification).

Subject index (alphabetical) and author index, each issue. Controlled vocabulary.

Input source: 25 primary journals (USA and Canada only).

Computerized.

AMERICAN JOURNAL OF ENOLOGY AND VITICULTURE

AMEJOEDA

Journal; 4 x; \$ 15.- in USA, \$ 16.- elsewhere; 1950 –

American Society of Enologists, P.O. Box 411, Davis, California 95616, USA.

Viticulture and oenology, plus related aspects of microbiology, fermentation, plant science, etc.

160 abstracts in EN. Titles in original language and EN. Author addresses.

Output arranged by author.

Subject index (alphabetical, 2 keywords), each issue and 10-yearly.

Input source: 50 primary journals (mainly US, Canada and Australia).

Cumulative data base: 10.000 references.

ANALYTICAL ABSTRACTS

ANAABSLO

Journal; Microfiche; 12 x; £ 28,-; 1954 -

The Society for Analytical Chemistry, 9/10 Savile Row, London W1X 1AF, UK.

All aspects of analytical chemistry, including analysis in relation to food, agriculture, air, water and effluents.

1.350 abstracts of AGRIS interest in EN. Titles in EN. Author addresses.

Output arranged by subject (own classification).

Subject index (alphabetical, 3 keywords) and author index, 6-monthly and 5-yearly.

Input source: 350 primary journals, 4% from secondary sources.

Additional services: full-size copies, library loans.

ANALISES DE RELATORIOS TECNICOS *)
(ANALYSES OF TECHNICAL REPORTS)

ANARETLI

Journal: 12 x; free; 1963 - (interrupted since 1968).

Nucleo de Documentacao. Servico de Informacao Agricola. Direccao-Geral dos Servicos Agricolas, Avenida Antonio Augusto de Aguiar, 104-7e, Lisboa-1, Portugal.

Agricultural in general.

Abstracts in PT. Titles in PT.

Output arranged by subject (UDC), by author and titles of primary journals.

Subject index, geographical and author index, annually.

Input source: primary literature (technical reports, mainly Portugal).

Additional services: full-size copies, library loans, translations from FR, EN into PT.

*) Arrived after deadline, not included in statistical calculations.

ANIMAL BREEDING ABSTRACTS

ANIBRAED

Journal; 4 x; £ 12,- in CAB-associated countries, £ 30,- elsewhere; 1933 –

Commonwealth Bureau of Animal Breeding and Genetics, Animal Breeding Research Organization, The Kings Buildings, West Mains Road, Edinburgh, EH93JX, UK. Unit of Commonwealth Agricultural Bureaux, Farnham Royal, Slough, SL2 3BN, UK.

Genetics, reproduction and production of farm mammals, laboratory mammals, fur bearers, poultry, and of wild species in game farming schemes; theoretical, mathematical and statistical genetics.

4.950 abstracts in EN plus 500 titles citations. Titles in EN. Author addresses.

Output arranged by subject (own classification).

Subject index (alphabetical, 4 keywords) and geographical index, annually. Author index, each issue and annually. Controlled vocabulary.

Input source: 927 primary journals, 4% from secondary sources.

Cumulative data base: 120.000 references. Computerized 1973.

Additional services: retrospective retrieval, annotated bibliographies, full-size copies, library loans.

ANIMAUX DE LABORATOIRE – REVUE BIBLIOGRAPHIQUE
(LABORATORY ANIMALS – BIBLIOGRAPHIC REVIEW)

ANILARPA

Journal; 12 x; FF 50,-; 1964 -

Centre National de la Recherche Scientifique (C.N.R.S.), Service des Publications, 15, Quai Anatole France, 75007-Paris, France.

Classical species of laboratory animals: anatomy, histology, physiology, biochemistry, psychology, genetics, pathology, non-experimental therapy.

2.900 title citations. Titles in original language and EN or FR. Author addresses.

Output arranged by species name and author.

Input source: 85 primary journals.

Cumulative data base: 30.000 references.

Additional services: translations from JA and RO into FR.

APICULTURAL ABSTRACTS

APIABSCH

Journal; 4 x; £ 9,50; 1950 –

Card service; £ 18,-;

Computer print-out; Microforms; Magnetic tapes.

Bee Research Association, Hill House, Chalfont St. Peter, Gerrards Cross, Bucks, SL9 0NR, UK.

Bees (Apoidea), beekeeping and rearing, substances used and produced by bees (honey, wax, nectar, pollen), diseases and enemies of bees, pollination and plants foraged.

1.500 references produced, 620 abstracts in EN and 420 title citations published. Mini abstracts (10 keywords). Titles in original language and EN. Author addresses.

Output arranged by subject (modified UDC).

Subject index (alphabetical) and author index, annually.

Input source: 500 primary journals, 20% from secondary sources.

Cumulative data base: 50.000 references. Computerized.

Additional services: SDI, retrospective retrieval, full-size and micro-copies, library loans, translations into EN.

AQUATIC SCIENCES AND FISHERIES ABSTRACTS

AQUSCFRO

Formerly: Aquatic Biology Abstracts

Journal; 12 x; £ 50,-; 1971 -

Food and Agriculture Organization of the United Nations (FAO), Research Information Section, Fisheries Resources Division, Via delle Terme di Caracalla, I-00100 Rome, Italy; Institut de la Recherche Agronomique, Département d'Hydrobiologie, Biarritz, France; Bundesforschungsanstalt für Fischerei, D-2 Hamburg 50, Palmallee 9, F.R. Germany.

Published by Information Retrieval Ltd., 1 Falconberg Court, London W1V 5FC, UK.

Freshwater and marine biology; fisheries; water pollution.

2.700 abstracts in EN (12.000 – 15.000 abstracts per year envisaged)

Titles in original language and EN. Author addresses.

Output arranged by subject (own classification).

Geographical, taxonomic and author indexes, each issue (annual cumulation and subject index (7 keywords) envisaged). Controlled vocabulary.

Input source: 1.700 primary journals.

Cumulative data base: 42.000 references. To be computerized in 1973.

**ARCHIVOS LATINOAMERICANOS DE NUTRICION
(LATINAMERICAN NUTRITION ARCHIVES)**

ARCLANCA

Journal; 4 x; \$ 6.-; 1950 –

Sociedad Latinoamericana de Nutricion, Instituto Nacional de Nutricion de Venezuela, Apartado 2049, Caracas, Venezuela.

Human and animal nutrition.

Abstracts. Titles in original language.

Output arranged by author.

Subject index (alphabetical) and author index, annually.

Input source: primary literature (Latin America only).

ARTICLES SELECTIONNES, AUSGEWAhLTE ZEITSCHRIFTENARTIKEL, ARTICOLI SELEZIONATI.
GESELECTEERDE TIJDSCHRIFTARTIKELEN ARTSELBR

(SELECTED ARTICLES)

Journal; 22 x; free; 1964 –

Commission des Communautés Européennes, Service Central de Documentation, 200 Rue de la Loi, Bruxelles, Belgium.

All aspects of the European Communities, including agricultural policy and economics.

6.200 abstracts in FR, GE, IT or NE, including 110 of AGRIS interest. Titles in original language.

Output-arranged by subject (UDC) and author.

Input source: 500 primary literature.

Additional services: full-size and microcopies, library loans.

ASHER'S GUIDE TO BOTANICAL PERIODICALS

ASHGUBAM

Journal; 15 x; Dfl. 550.-; 1973 –

Published by A. Asher and Co. b.v., Keizersgracht 526, Amsterdam 1002, Netherlands.

Pure and applied botanical sciences.

100.000 title citations, in part of AGRIS interest. Titles in original language.

Output arranged by titles of primary journals.

Index of scientific plant names and author index, each issue and annually. Controlled vocabulary.

Input source: 5.000 primary journals.

Computerized.

Additional services: SDI, Subject-Title lists.

ATOMABONNEMENT

ATOMABZU

Card service; 1930 –

RADIOBIOLOGY; 24 x; 40 cards per issue; SFr 144,-

LEBENSMITTEL (FOODSTUFFS); 2 x; 40-50 cards per issue; SFr 15,-

ETH-Bibliothek (Eidgenössische Technische Hochschule), Leonhardstrasse 33, CH-8006 Zürich, Switzerland.

1. Radiobiology, 2. Food irradiation and contamination.

1.100 title citations, in part with indicative abstracts. Abstracts and titles in original language.

Output arranged by subject (own classification) and author.

Controlled vocabulary.

Input source: 20 primary journals (cover-to-cover) plus other journals scanned.

Additional services: retrospective retrieval, special bibliographies, full-size and microcopies.

AUSTRALIAN SCIENCE INDEX**AUSSCIME**

Journal; 12 x; free; 1957 -

Central Library and Information Services, Commonwealth Scientific and Industrial Research Organization (CSIRO), P.O.Box 89, East Melbourne, Victoria 3002, Australia.

Science and technology in general, including agriculture and related subjects.

2.100 title citations of AGRIS interest. Titles in EN.

Output arranged by subject (own classification).

Subject index (alphabetical, 5 keywords) and author indexes, each issue and annually.

Input source: 125 primary journals (Australia, Papua/New Guinea only)

Additional services: SDI, retrospective retrieval.

**BERICHTE BIOCHEMIE UND BIOLOGIE
(REPORTS ON BIOCHEMISTRY AND BIOLOGY)****BERBIBHE**

Journal; 70 x; ca. DM. 3.560,-; 1926 -

Springer-Verlag, D-69 Heidelberg, Neuenheimer Landstrasse 28-30, F.R. Germany.

Biochemistry and biology

Abstracts in GE or EN. Titles in original language and GE or EN. Author addresses.

Output arranged by subject (own classification).

Subject and author index, every 2-4 months.

Input source: 1.250 primary journals.

Additional services: library loans.

**BETRIEBSWIRTSCHAFTLICHE NACHRICHTEN FÜR DIE LANDWIRTSCHAFT (BN)
(FARM MANAGEMENT INFORMATION FOR AGRICULTURE)****BETNALBO**

Card service; 12 x; DM 26,62; 1940 -

Hauptverband der Landwirtschaftlichen Buchstellen und Sachverständigen e. V. (HLBS), 53 Bonn, Oxfordstrasse 2, F.R. Germany.

Published by Verlag "Pflug und Feder", Landwirtschaftlicher Betriebswirtschaftlicher Verlag, D-53 Bonn, Oxfordstrasse 2, F.R. Germany.

Economics of production; agricultural legislation, taxation.

360 abstracts in GE. Titles in GE.

Output arranged by titles of primary journals and author.

Subject index (alphabetical, 1-2 keywords), annually.

Input source: 25 primary journals (F.R. Germany only), 95% from secondary sources.

Additional services: full-size copies.

BIBLIOGRAFIAS AGRICOLAS DE AMERICA CENTRAL: PANAMA
(AGRICULTURAL BIBLIOGRAPHIES OF CENTRAL AMERICA: PANAMA)

BIBAGATU

Printed bibliography; irregular; free; 1972 –

Centro Interamericano de Documentacion e Informacion Agricola (IICA-CIDIA), Turrialba, Costa Rica.

Agriculture in general.

1.400 title citations. Titles in SP.

Output arranged by subject (Bibliography of Agriculture).

Subject index (alphabetical) and author index.

Input source: 40 primary journals (Panama only).

Additional services: retrospective retrieval, full-size and microcopies, library loans.

BIBLIOGRAFIA AGRICOLA BOLIVIANA
(BOLIVIAN BIBLIOGRAPHY OF AGRICULTURE)

BIBAGBLA

Printed bibliography; 2-yearly; Bibliography BV 30,- Supplement BV 12,-; 1966 -

Ministerio de Asuntos Campesinos y Agricultura, La Paz, Bolivia.

Agriculture in general.

260 title citations. Titles in SP.

Output arranged by subject (own classification).

Subject index (alphabetical) and author index, each issue.

Input source: 11 primary journals (Bolivia only).

Additional services: translations from EN, GE into SP.

BIBLIOGRAPHIE AGRICOLE COURANTE ROUMAINE
(CURRENT ROMANIAN AGRICULTURAL BIBLIOGRAPHY)

BIBAGCBU

Journal; 4 x; 1967 -

Centrul de Informare si Documentare Pentru Agricultura si Silvicultura (Ministère de l'Agriculture et de la Sylviculture de L'Académie des Sciences Agricoles et Forestières), 61, Boulevard Marasti, Bucuresti 33, Romania.

Agriculture in general.

3.000 - 4.000 title citations. Titles in RO and FR.

Output arranged by broad subject areas (own classification) and author.

Author index, each issue.

Input source: 46 primary journals (Romania only)

Additional Sources: full-size and microcopies, translations from EN, FR, GE, IT, RS, SP, BU, PO, CZ into RO.

BIBLIOGRAFIAS AGRICOLAS DE AMERICA CENTRAL: COSTA RICA
(AGRICULTURAL BIBLIOGRAPHIES OF CENTRAL AMERICA: COSTA RICA)

BIBAGCTU

Printed bibliography; irregular; free; 1972 –

Centro Interamericano de Documentacion e Informacion Agricola, (IICA-CIDIA), Turrialba, Costa Rica.

Agriculture in general.

3.000 title citations. Titles in SP.

Output arranged by subject (own classification).

Subject index (alphabetical, 3 keywords) and author index, each issue.

Input source: primary literature (Costa Rica only).

Additional services: retrospective retrieval, full-size copies, library loans.

BIBLIOGRAPHIA AGRICOLA LATINOAMERICANA
(AGRICULTURAL BIBLIOGRAPHY OF LATIN AMERICA)

BIBAGLTU

Journal; 4 x; Q/ 87.00.-; 1966 –

Association Interamericana de Bibliotecarios y Documentalistas Agricolas, c/o IICA-CIDIA, Turrialba, Costa Rica.

Agriculture in general.

3.450 title citations. Titles in original language.

Output arranged by subject (Bibliography of Agriculture).

Subject index (KWIC, 3 keywords) and author index, each issue and annually.

Input source: 466 primary journals (Latin American and Caribbean countries); 5% from secondary sources.

Cumulative data base: 18.400 references.

Additional service: full-size copies.

BIBLIOGRAFIAS AGRICOLAS DE AMERICA CENTRAL: NICARAGUA
(AGRICULTURAL BIBLIOGRAPHIES OF CENTRAL AMERICA: NICARAGUA)

BIBAGNTU

Printed bibliography; irregular; free; 1972 –

Centro Interamericano de Documentacion e Informacion Agricola, (IICA-CIDIA), Turrialba, Costa Rica.

Agriculture in general.

1.380 title citations. Titles in SP.

Output arranged by subject (own classification).

Subject index (alphabetical) and author index, each issue.

Input source: primary literature (Nicaragua only).

Additional services: retrospective retrieval, full-size copies, library loans.

BIBLIOGRAFIA AGRICOLA PERUANA
(AGRICULTURAL BIBLIOGRAPHY OF PERU)

BIBAGPLI

Printed bibliography; irregular; free; 1967 -

Estación Experimental Agrícola de la Molina, Apartado 2791 v 456, Lima, Peru.

Agriculture in general.

Title citations. Titles in SP.

Output arranged by subject (own classification).

Subject and author index.

Input source: primary literature (Peru only).

Cumulative data base: 7.750 references.

Additional services: SDI, full-size copies, library loans.

BIBLIOGRAPHIE AGRICOLE ET RURALE
(AGRICULTURAL AND RURAL BIBLIOGRAPHY)

BIBAGRAN

Journal; 4 x; FF 25,- to individuals; FF 50,- to institutional subscribers; 1967 -

Ecole Supérieure d'Agriculture (ESA), Centre de documentation, 24, rue Auguste-Fonteneau, 49-Angers, France.

Fundamental sciences; agricultural machinery; economics; administration; social sciences.

5.000 references produced, 500 abstracts in FR published. Titles in original language and FR.

Output arranged by subject (own classification).

Input source: 340 primary journals (FR mainly).

Cumulative data base: 200.000 references.

Additional services: SDI, retrospective retrieval, full-size and microcopies, library loans.

BIBLIOGRAPHY OF AGRICULTURE

BIBAGRBE

Journal; 12 x; \$ 137.50 per volume; 1942 –
Magnetic (CAIN) tapes; 12 x; \$ 45,- per issue.

National Agricultural Library, Beltsville, Md. 20705, USA

Journal published by CCM Information Corporation, 866 Third Avenue, New York, N.Y. 10022, USA.
Magnetic tapes issued by National Agricultural Library, Beltsville, Md. 20705, USA.

Agriculture in general.

120.000 references produced. 103.500 title citations published. Enriched titles. Titles of printed output in EN, titles on magnetic tapes in original language and EN.

Output arranged by subject (own classification) and titles of primary journals.

Subject index (modified KWIC, 6 keywords) and author index, each issue and annually. Controlled vocabulary.

Input source: 6.500 primary journals.

Cumulative data base: 202.000 references on magnetic tape. Computerized.

Additional services: full-size and microcopies, library loans, SDI tapes.

**BIBLIOGRAFIA AGRICOLA DEL URUGUAY
(URUGUAYAN AGRICULTURAL BIBLIOGRAPHY)**

BIBAGUMO

Journal; 1 x; free; 1963 -

Ministerio de Ganaderia y Agricultura, Biblioteca Central, Cerrito 315, Montevideo, Uruguay.

Agriculture in general.

Title citations. Titles in SP.

Output arranged by subject (own classification)

Subject index (alphabetical) and author index.

Input source: primary literature (Uruguay only).

Cumulative data base: 1.150 references.

**BIBLIOGRAPHIE ANALYTIQUE ET SCIENTIFIQUE
(ANALYTICAL AND SCIENTIFIC BIBLIOGRAPHY)**

BIBANSLY

Journal; 11 x; FF 120,-; 1962 -

Centre Technique du Cuir, Service Information, 181, av. Jean Jaurès, 69 Lyon (7e), France.

Animal husbandry, animal nutrition and veterinary medicine in relation to leather production and quality.

2.300 references produced, 60 abstracts in FR published. Mini abstracts. Titles in EN, FR or GE.

Output arranged by subject (own classification).

Input source: 150 primary journals; 50% from secondary sources.

Cumulative data base: 20.000 references.

Additional services: retrospective retrieval, full-size copies.

**BIBLIOGRAFIA ARGENTINA DE AGRONOMIA Y VETERINARIA
(ARGENTINA AGRONOMIC AND VETERINARY BIBLIOGRAPHY)**

BIBARABU

Journal; 1 x; free; 1968 -

Biblioteca Central de la Facultad de Agronomia Veterinaria de la Universidad de Buenos Aires, Avenida San Martin 4453, Buenos Aires, Argentina.

Agriculture in general.

2.000 title citations. Titles in SP.

Output arranged by subject (UDC).

Subject index (alphabetical, 4 keywords), geographical and author index, annually.

Input source: 420 primary journals (Argentina only).

Additional services: retrospective retrieval, full-size and microcopies, library loans.

BIBLIOGRAFIA BRASILEIRA DE BOTANICA
(BRAZILIAN BOTANICAL BIBLIOGRAPHY)

BIBBRBRI

Printed bibliography; irregular; Cr 10,-; 1957 -

Instituto Brasileiro de Bibliografia e Documentação, av. General Justo, 171/3 Andar, 20.000 Rio de Janeiro, GB-Brazil.

Botany and related subjects.

Title citations. Titles in PT.

Subject index (KWIC) and author index.

Input source: 104 primary journals (Brazil only).

Cumulative data base: 15.000 references. Computerized.

Additional services: Retrospective retrieval, full-size and microcopies, library loans.

BIBLIOGRAFIA BRASILEIRA DE CIENCIAS AGRICOLAS
(BRAZILIAN BIBLIOGRAPHY OF AGRICULTURAL SCIENCES)

BIBBRCRI

Computer print-out; irregular; \$ 15,; 1969 -

Instituto Brasileiro de Bibliografia e Documentação, av. General Justo 171/4 Andar, 20.000 Rio de Janeiro, G.B.-Brazil.

Agriculture in general.

Title citations. Titles in PT.

Subject index (KWIC, 3 keywords) and author index.

Input source: 200 primary journals (Brazil only), 10% from secondary sources.

Cumulative data base: 10.700 references. Computerized.

Additional services: retrospective retrieval, full-size and microcopies, library loans.

BIBLIOGRAFIA BRASILEIRA DE ZOOLOGIA
(BRAZILIAN ZOOLOGICAL BIBLIOGRAPHY)

BIBBRZRI

Computer print-out; irregular; Cr 10,-

Instituto Brasileiro de Bibliografia e Documentação, Av. General Justo 171/3 Andar, 20.000 Rio de Janeiro, G.B.-Brazil.

Zoology and related subjects.

Title citations. Titles in PT.

Subjects index (KWIC, 3 keywords) and author index. Controlled vocabulary.

Input source: 80 primary journals (Brazil only), 10% from secondary sources.

Cumulative data base: 15.000 references. Computerized.

Additional services: retrospective retrieval, full-size and microcopies, library loans.

BIBLIOGRAFIA DE CAFE
(BIBLIOGRAPHY OF COFFEE)

BIBCAFLI

Journal; irregular (100 references per issue); free; 1960 –

Centro de Documentacao de Cafe, Missao de Estudos Agronomicos do Ultramar, Apartado 3014, Lisboa, Portugal.

Coffee production and processing; coffee by-products and derivatives.

Title citations. Titles in PT, FR and EN. Author addresses.

Output arranged by numerical sequence.

6 keywords. Controlled vocabulary.

Input source: 2.000 primary journals, 30% from secondary sources.

Cumulative data base: 7.000 references.

Additional services: SDI, retrospective retrieval, full-size copies.

BIBLIOGRAFIA SOBRE CONSERVACIONISMO

BIBCONRI

Annex to the Journal "O Conservacionista"

(BIBLIOGRAPHY OF CONSERVATION)

Journal; 12 x; free; 1968 -

Instituto de Conservacao de Natureza, Estrada da Vista Chinesa 741, Caixa Postal 3545 ZC-00, 20.000 Rio de Janeiro, GB-Brazil.

Soil conservation; wild-life conservation; forest conservation.

1.000 abstracts in PT. Titles in original language and PT.

Output arranged by subject (UDC).

Controlled vocabulary.

Input source: 50 primary journals.

Cumulative data base: 5.450 references.

Additional services: SDI, full-size and microcopies, library loans, translations from EN, FR, GE into PT.

BIBLIOGRAFIAS ESPECIALIZADAS
(SPECIALIZED BIBLIOGRAPHIES)

BIBESPTU

Typewritten lists; irregular, free; 1949 –

Centro Interamericano de Documentacion et Informacion Agricola (IICA-CIDIA) Turrialba, Costa Rica.

Agriculture in general.

1.600 title citations. Titles in original language.

Output arranged by author.

Input source: 80% from secondary sources.

Cumulative data base: 42.000 references.

Additional services: retrospective retrieval, full-size copies, library loans.

BIBLIOGRAPHIE DES FORST- UND HOLZWIRTSCHAFTLICHEN SCHRIFTTUMS,

BIBFOHRE

Currently available as 'SCHRIFTTUMSKARTEIDIENST DES FORST- UND HOLZWIRTSCHAFTLICHEN SCHRIFTTUMS'

(BIBLIOGRAPHY OF FORESTRY AND WOOD LITERATURE)

Currently available as LITERATURE CARD SERVICE OF THE FORESTRY AND WOOD TECHNOLOGY LITERATURE

Computer print-out and card service; 4 x ; DM 32,-; 1956 -

Bundesforschungsanstalt für Forst- und Holzwirtschaft - Dokumentation - D-2057 Reinbek bei Hamburg, Schloss, F.R. Germany.

Available from Kommissionsbuchhandlung Max Wiedebusch, D-2 Hamburg 36, Dammtorstrasse 20, F.R. Germany.

Forestry; game and hunting; land development and conservation; environmental science; wood research; wood industry; wood marketing; processing and utilization; by-products.

11.400 title citations. Mini abstracts (5 keywords). Titles in EN, FR or GE.

Output arranged by subject (ODC).

Subject index (KWOC, including taxonomic terms), geographical and author indexes, each issue.

Input source: 400 primary journals, 20% from secondary sources.

Cumulative data base: 200.000 references. Mechanized input. Compilation of bibliography computerized.

Additional services: SDI, retrospective retrieval, full-size and microcopies.

BIBLIOGRAFIA – FRIJOL (PHASEOLUS SPP.)

BIBFRITU

(BIBLIOGRAPHY – BEANS, PHASEOLUS SPP)

Printed bibliography; irregular; free; 1965 –

Centro Interamericano de Documentacion e Informacion Agricolas (IICA-CIDIA) Turrialba, Costa Rica.

Beans: production, economics and technology.

300 titles citations. Titles in original language.

Output arranged by subject (own classification).

Author index.

Input source: 1.000 EN, FR, PT and SP primary journals.

Cumulative data base: 6.150 references.

Additional services: retrospective retrieval, full-size copies, library loans.

BIBLIOGRAPHIE DES SCHRIFTTUMS FÜR DEN BEREICH DER HAUSHALTSWISSENSCHAFT

BIBHAUST

(BIBLIOGRAPHY OF THE LITERATURE IN THE FIELD OF DOMESTIC SCIENCE)

Printed bibliography; 2-yearly; DM 7,50; 1969 -

Bundesforschungsanstalt für Hauswirtschaft, Bibliothek und Dokumentation, D-7 Stuttgart-Hohenheim, Garbenstrasse 13, F.R. Germany.

Home economics, including housekeeping, macroeconomics, production and labour; house building; domestic equipment; food technology; family sociology; education and extension.

3.740 title citations (in 2 years). Titles in original language and GE.

Output arranged by subject (own classification).

Subject and author index, each issue. Controlled vocabulary.

Input source: 170 primary journals.

Cumulative data base: 9.500 references.

Additional services: retrospective retrieval, full-size copies.

BIBLIOGRAPHIA HISTORIAE RERUM RUSTICARUM INTERNATIONALE
(INTERNATIONAL BIBLIOGRAPHY OF AGRICULTURAL HISTORY)

BIBHIRBU

1 x; Ft 260,-; 1964 -

Magyar Mezőgazdasági Múzeum, Budapest (XIV), Vajdahunyad-var, Bp. 5, Hungary.

Agricultural history.

6.245 title citations. Titles in EN, FR, GE, IT or SP.

Output arranged by subject (own classification).

Geographical and author index, each issue.

Input source: 170 primary journals, 60% from secondary sources.

Cumulative data base: 24.000 references.

BIBLIOGRAPHIE DE L'INSTITUT ECONOMIQUE AGRICOLE
(BIBLIOGRAPHY OF THE INSTITUTE OF AGRICULTURAL ECONOMICS)

BIBINEBR

Journal; Card service; 12 x; free; 1965 -

Institut Economique Agricole (IEA), Section Analyses Documentaires et Statistiques, Boulevard de Berlaimont, 18, B-1000 Bruxelles, Belgium.

Agricultural economics and rural sociology.

3.400 abstracts in NE and/or FR. Mini abstracts (5 keywords). Titles in original language.

Output arranged by subject (UDC plus keywords), by author and titles of primary journals.

Subject index (alphabetical), two-monthly. Controlled vocabulary.

Input source: 100 primary journals, 15% from secondary sources.

Additional services: SDI, retrospective retrieval, library loans.

BIBLIOGRAPHY OF INDIAN FISHERIES

BIBINFBA

Journal; 4 x; free; 1962 -

Central Inland Fisheries Research Institute (ICAR), Barrackpore, 24-Parganas, West Bengal, India.

Pisciculture; fishery biology; fish breeding; physiology, distribution, ecology and population dynamics of fish; pathology, fish processing industry; fishery equipment; limnology; mollusc fisheries; frog culture; water pollution; aquatic weeds, etc.

900 references produced, 420 abstracts in EN published. Titles in EN. Author addresses.

Output arranged by titles of primary journals and author.

Subject index (alphabetical), taxonomic and author index, each issue and annually.

Cumulative data base: 6.000 references.

BIBLIOGRAPHY OF INSECTICIDE MATERIALS OF VEGETABLE ORIGIN**BIBINMLO**

Journal, Card service; 2 x; free; 1937 -

Tropical Products Institute, 56-62 Gray's Inn Road, London WC1X 8LU, UK.

Insecticide materials of vegetable origin; pyrethrins and synthetic analogues; rotenone containing materials.

900 references produced, 400 abstracts in EN published. Titles in EN.

Output arranged by subject (own classification) and author.

Input source: 100 primary journals.

Cumulative data base: 15.000 references.

Additional services: bibliographies on request, full-size copies, library loans, translations from FR, GE, IT, PT, SP, RS into EN.

BIBLIOGRAPHY ON IRRIGATION, DRAINAGE, RIVER TRAINING AND FLOOD CONTROL**BIBIRDNE**

Printed bibliography; 1 x; \$ 2,-; 1958 -

International Commission on Irrigation and Drainage, Central Office, 48 Nyaya Marg, Chanakyapuri, New Delhi-21, India.

Irrigation, drainage, flood control, river training, hydrology, irrigated agriculture, protection of water from pollution, reclamation, soil science.

3.275 title citations. Titles in EN or FR. Some abstracts in EN or FR.

Output arranged by subject (UDC)

Author index, annually.

Input source: 200 primary journals; 5% from secondary sources.

Cumulative data base: 36.700 references.

Additional services: library loans, translations.

**BIBLIOGRAFIJA JUGOSLAVIJE - CLANCI PRILOZI - SER. B
(BIBLIOGRAPHY OF YUGOSLAVIA - ARTICLES AND CONTRIBUTIONS - Serie B)****BIBJUCBE**

Journal; 12 x; ND 150,- in Yugoslavia, \$ 16,- elsewhere; 1950 -

Jugoslovenski Bibliografski Institut, Terazije 26, post. fah 20, Beograd, Yugoslavia.

Agriculture in general.

3.180 title citations. Titles in original language (SR and SN mostly)

Output arranged by subject (UDC).

Subject index (alphabetical, 1,8 keywords) and author index, each issue.

Input source: 115 primary journals (Yugoslavia only).

Additional services: SDI.

BIBLIOGRAPHIEN ZUR KERNFORSCHUNG UND KERNTECHNIK,

BIBKEKLE

Sektion 02: KONTAMINATION UND DEKONTAMINATION.

Sektion 05: BESTRAHLUNG VON LEBENSMITTELN.

(BIBLIOGRAPHY OF ATOMIC SCIENCE AND TECHNOLOGY.

Section 02: CONTAMINATION AND DECONTAMINATION.

Section 05: IRRADIATION OF FOODSTUFFS.)

Printed Bibliographies; irregular; for sale; 1960 -

Zentralstelle für Atomkernenergie-Dokumentation (ZAED), D-7501 Leopoldshafen, Kernforschungszentrum (In collaboration with Bundesforschungsanstalt für Lebensmittelrisikohaltung, D-75 Karlsruhe 1, Engesserstrasse, 20, F.R. Germany).

Irradiation, contamination and decontamination of food.

5.000 references produced, 1.000 title citations published.

Mini abstracts (10 keywords). Titles in original language and EN. Author addresses.

Subject index (alphabetical) and author index. Controlled vocabulary.

Input source: 250 primary journals.

Cumulative data base: 150.000 references. Mechanized and computerized.

Additional services: full-size and microcopies.

**BIBLIOGRAFIA NACIONAL DE AGRICULTURA
(NATIONAL BIBLIOGRAPHY OF AGRICULTURE)**

BIBNAAME

Printed bibliography; \$ 80,-; 1972 -

Biblioteca Agricola Nacional, Apartado Postal 6-882, Mexico 6, DF.

Agriculture in general.

1.300 title citations. Titles in SP.

Output arranged by author.

Subject index (KWIC).

Input source: primary literature (Mexico only).

Cumulative data base: 30.000 references. Computerized.

Additional services: SDI, full-size copies, library loans, translations from SP into FR and EN.

**BIBLIOGRAPHIE DER PFLANZENSCHUTZLITERATUR. NEUE FOLGE
(BIBLIOGRAPHY OF PLANT PROTECTION LITERATURE. NEW SERIES)**

BIBPFLBE

Journal; 4 x; DM 80,-; 1918 -; NEW SERIES 1968 -

Dokumentationsschwerpunkt Pflanzenkrankheiten und Pflanzenschutz der Biologischen Bundesanstalt für Land- und Forstwirtschaft, D-1 Berlin 33 Dahlem, Königin-Luise-Strasse 19, F.R. Germany.

Published by Verlag Paul Parey, Berlin und Hamburg, D-1 Berlin 61, Lindenstrasse 44-47, F.R. Germany.

Plant diseases and pests; plant protection; stored food protection; chemistry, residues and toxicology of pesticides; plant protection techniques; breeding for resistance.

15.400 title citations. Titles in EN, FR or GE.

Output arranged by subject (own classification) in EN, FR and GE.

Indexes (8 keywords) in preparation. Controlled vocabulary.

Input source: 1.000 primary journals.

Cumulative data base: 88.000 references. Data processing partly manual, mechanized and computerized.

Additional services: retrospective retrieval, annotated bibliographies (titles plus mini abstracts), full-size copies, library loans.

BIBLIOGRAPHY OF REPRODUCTION**BIBREPCA**

Journal; 12 x; £ 25,-; 1963 -

Reproduction Research Information Service Ltd., 141 Newmarket Road, Cambridge, UK.

Reproductive biology of all vertebrates, including all domestic vertebrates; normal function and also pathology.

14.000 references produced, 11.000 title citations published. Titles in EN. 50% with author addresses.

Output arranged by subject (own classification) and titles of primary journals.

Subject index (alphabetical, 6 keywords), 6-monthly. Author index, each issue. Controlled vocabulary.

Input source: 8.000 primary journals; 70% from secondary sources.

Cumulative data base: 106.250 references.

Additional services: retrospective retrieval, special bibliographies.

**BIBLIOGRAPHIA SCIENTIAE NATURALIS HELVETICA
(SWISS BIBLIOGRAPHY OF NATURAL SCIENCES)****BIBSCNBE**

1 x; FrS. 11,-; 1925 -

Schweizerische Landesbibliothek, Halwylstrasse 15, CH-3003 Bern, Switzerland.

Agriculture in general.

330 title citations of AGRIS interest. Titles in original language.

Output arranged by subject (own classification).

Subject index (alphabetical, 2 keywords) and author index, each issue.

Input source: 250 primary journals (Swiss only).

Additional services: full-size and microcopies, library loans.

**BIBLIOGRAPHIE SIGNALETIQUE HEBDOMADAIRE SELECTIONNEE
(WEEKLY SELECTIVE INFORMATION BIBLIOGRAPHY)****BIBSIHPA**

Journal; card service; 52 x; journal FF 42,- in France, FF 53,- elsewhere; journal plus card service FF 57,- in France, FF 72,- elsewhere.

Météorologie Nationale, Service Météorologique Métropolitain - Division documentation, 2, avenue Rapp, 75340 Paris Cedex 07, France.

Agricultural meteorology and hydrology.

3.000 references produced, 110 title citations or abstracts in FR published. Titles in original language and FR.

Output arranged by subject (UDC) and author.

Input source: 310 primary journals.

Cumulative data base: 40.000 titles (meteorology in general).

Additional services: full-size copies, translations from EN, ES, RS, GE, PT into FR.

BIOLOGICAL ABSTRACTS**BIOABSPH**

Journal; 24 x; \$ 1.000,- (\$ 800,- to educational non-profit and individual subscribers). Prices include subscription to BioResearch Index (see BIOINDPH); 1926 - Microforms.
Magnetic tapes (BA Previews); \$ 500,-, annual lease.

Biosciences Information Service of Biological Abstracts, 2100 Arch Street, Philadelphia, Pennsylvania 19103, USA

Biological sciences, including biochemistry, biophysics, cell biology, genetics, systematic biology, bioinstrumentation, radiation biology, animal and plant physiology and pathology, parasitology, virology, toxicology, veterinary science, microbiology and bacteriology, environmental biology, public health, nutrition, agriculture.

140.000 abstracts in EN. Titles in original language and EN. Author addresses.

Output arranged by subject (own classification).

Subject index (KWOC), Biosystematic, CROSS index and author index, each issue and 6-monthly.

Input source: 7.000-8.000 primary journals (see also BIOINDPH).

Computerized.

Additional services: SDI, retrospective retrieval, full-size copies.

BIORESEARCH INDEX**BIOINDPH**

Journal; 12 x; \$ 75.-: 1965 –

Biosciences Information Service of Biological Abstracts, 2100 Arch Street, Philadelphia, Pennsylvania 19103, USA.

Biological sciences, including biochemistry, biophysics, cell biology, genetics, systematic biology, bioinstrumentation, radiation biology, animal and plant physiology and pathology, parasitology, virology, toxicology, veterinary science, microbiology and bacteriology, environmental biology, public health, nutrition, agriculture.

90.000 title citations. Mini abstracts. Titles in EN.

Output arranged by titles of documents.

Subject index (KWOC), BioSystematic and CROSS index, and author index, each issue and annually.

Input source: proceedings of symposia, seminars and meetings, books, review article publications and other similar literature not covered by Biological Abstracts (see also BIOABSPH).

Computerized.

Additional services: full-size copies.

BIOTEHNISKA INFORMATIKA (BI)**BIOINFLJ**

Formerly (before 1971) *Izvlečki biotehniskik del IBD.*

(BIOTECHNICAL INFORMATION)

Mimeographed publication; issued irregularly in 1971; Din 68,- in Yugoslavia, elsewhere by exchange only.

INDOK center za biotehniko, biotehniska fakulteta, 61001 Ljubljana, Krekov trg 1, P.F. 486, Yugoslavia.

Agriculture in general.

1.630 abstracts in SN plus 3.000 title citations. Titles in original language and partly in SN. Author addresses.

Output arranged by subject (UDC).

Subject index (alphabetical; 7 keywords), annually. Controlled vocabulary.

Input source: 80 primary journals cover-to-cover plus 280 primary journals scanned (Yugoslavia only), 55% from secondary sources.

Cumulative data base: 12.500 references.

Additional services: SDI, retrospective retrieval, full-size copies, library loans, translations from SL into EN and GE.

BIODETERIORATION RESEARCH TITLES**BIORETBI**

Formerly IBBRIS-International Biodeterioration Bulletin, Reference Index Supplement.

Journal; 4x ; £ 10.-; 1966 –

Biodeterioration Information Centre, Department of Biological Sciences, The University of Aston in Birmingham, 80 Colehill Street, Birmingham B4 7PF, UK.

Biological deterioration of materials, including wood, agricultural produce, foodstuffs, biological fouling, including fouling of waterways by water weeds, biological degradation of pesticides, etc.

3.000 title citations, including 1.400 of AGRIS interest, in part with mini abstracts. Titles in EN.

Output arranged by subject (own classification).

Input source: 200 primary journals, 80% from secondary sources.

Cumulative data base: 20.000 references.

Additional services: retrospective retrieval, full-size copies, translations from most European languages and JA into EN.

**BOIS ET FORETS DES TROPIQUES
(TROPICAL WOODS AND FORESTS)****BOIFOTNO**

Journal; 6 x; FF 18,-; 1947 –

Centre Technique Forestier Tropical (CTFT), 45 Bis Avenue de la Belle Gabrielle, 94130 Nogent sur Marne, France.

Wood production, wood technology and wood industries. Inland fisheries and fisheries of intertropical zones.

5.000 references produced, 50 abstracts published. Titles in original language and FR.

Output arranged by subject (UDC)

Input source: 220 primary journals, 20% from secondary sources.

Cumulative data base: 75.000 references.

Additional services: full-size copies, library loans.

BOLETIN PARA BIBLIOTECAS AGRICOLAS**BOLBIATU**

Tablas de Contenido, Intercambio de Bibliografias, Literatura selecta.

(BULLETIN FOR AGRICULTURAL LIBRARIES. TABLES OF CONTENTS, EXCHANGE OF BIBLIOGRAPHIES, SELECTED LITERATURE)

Journal; 4 x; free; 1964 –

Centro Interamericano de Documentacion e Informacion Agricola (IICA-CIDIA), Apartado 74, Turrialba, Costa Rica.

Agriculture in general; libraries and documentation.

97 bibliographic lists (2.100) references produced, 150 title citations published. Titles in original language.

Output arranged by subject (own classification) or by title of primary journals scanned.

Cumulative data base: 749 bibliographic lists (47.400) references.

Additional services: retrospective retrieval, full size copies, library loans.

**BOLETIN BIBLIOGRAFICO
(BIBLIOGRAPHIC BULLETIN)**

BOLBIBME

Journal; Card service; 4 x; free.

Instituto Forestal Latinoamericano, Apartado 36, Merida, Venezuela.

Forestry.

6.000 references produced, 1.400 abstracts in SP published. Titles in original language and SP.

Output arranged by subject (ODC).

Subject index (ODC) in each issue. Controlled vocabulary.

Cumulative data base: 30.000 references.

Additional services: SDI, retrospective retrieval, full-size and microcopies, translations from EN, FR, PT, GE, NE, and IT into SP.

**BOLETIN BIBLIOGRAFICO
(BIBLIOGRAPHIC BULLETIN)**

BOLBIBRE

Journal; irregular; free; 1971 -

Centro de Información Agrícola, Biblioteca Central-Resistencia-UNNE, avda. Las Hera 727, Resistencia - Prov. del Chaco, Argentina.

Agriculture in general, with emphasis on soils and soil microbiology.

950 title citations. Titles in original language.

Output arranged by subject (UDC).

Subject index (alphabetical) and author index. Controlled vocabulary.

Input source: primary journals, 40% from secondary sources.

Additional services: SDI, full-size copies, library loans.

**BOLETIN DEL CENTRO PANAMERICANO DE FIEBRE AFTOSA
Resúmenes, Bibliografías.**

BOLCEPRI

**(BULLETIN OF THE PANAMERICAN CENTRE FOR FOOT AND MOUTH DISEASE, ABSTRACTS,
BIBLIOGRAPHIES)**

Journal; 4 x; free; 1971 -

Centro Panamericano de Fiebre Aftosa, Caixa Postal 589 ZC-OO, Rio de Janeiro-GB, Brazil.

Foot and mouth diseases, including virology, epidemiology, biochemistry, veterinary medicine and biostatistics.

115 abstracts in EN and SP and 160 title citations. Titles in original language, SP and EN.

Output arranged by author.

Input source: 177 primary journals, 30% from secondary sources.

Additional services: full-size copies.

BOLETIN DE DOCUMENTACAO
(BULLETIN OF DOCUMENTATION)

BOLDOCRI

Journal; 4 x; free; 1971 –

Servico de Documentação Economica, Instituto Brasileiro do Cafe, av. Rodrigues Alves 129 - terreo, 20.000 Rio de Janeiro, GB-Brazil.

Coffee: economics and marketing, statistics, legislation, technology, chemistry, industry, etc.

30 abstracts in PT and 200 title citations Titles in original language.

Output arranged by author.

Input source: 50 primary journals.

Additional services: full-size copies, library loans, translations from EN, FR, SP into PT.

BOLETIN INFORMATIVO TRIMESTRAL
(QUARTERLY INFORMATION BULLETIN)

BOLIFTBU

Journal; 4 x; 1971 –

Centro Panamericano de Zoonosis, Casilla de Correo 23, Ramos Mejia, Buenos Aires, Argentina.

Biology, zoology.

Abstracts in SP and EN. Titles in original language and EN.

Output arranged by author.

Cumulative data base: 100 references.

BORON IN AGRICULTURE

BORAGRLO

Journal; 4 x; free; 1948 –

Borax Consolidated LTD, Borax House, Carlisle Place, London SW1, UK.

Boron in relation to crop production and plant physiological aspects.

200 Abstracts in EN. Titles in original language and EN.

Output arranged by subject (own classification).

Subject index (2 keywords) and geographical index, each issue.

Input source: 36 primary journals, 75% from secondary sources.

Cumulative data base: 3.000 references.

**BRASIL ACUCAREIRO,BIBLIOGRAPHIA
(BRAZIL SUGAR PRODUCER (BIBLIOGRAPHY))**

BRAACURI

Journal; 12 x; Cr 50,-; 1932 -

Instituto do Açúcar e do Alcool, Praça 15 de Novembro, 42. 20.000 Rio de Janeiro, G.B.-Brazil.

Sugar cane, sugar and alcohol.

620 title citations. Titles in original language.

Output arranged by author.

Cumulative data base: 6.250 references.

BSBI ABSTRACTS

BSBABSLO

Journal; 1 x; £ 2,-; 1967 -

Botanical Society of the British Isles, c/o Department of Botany, British Museum (Natural History), London S.W.7, UK.

Vascular plants of the British isles, including history, biography, floras, chromosome surveys, pteridophyta, gymnospermae and angiospermae.

500 abstracts in EN. Titles in original language and EN.

Input source: primary literature of relevance to the British flora.

Output arranged by subject (own classification), by geographical location and author.

**BULLETIN ANALYTIQUE D'ENTOMOLOGIE MEDICALE ET VETERINAIRE
(ANALYTICAL BULLETIN OF MEDICAL AND VETERINARY ENTOMOLOGY)**

BULANEP

Journal: 12 x; FF 75.- in France, FF 85,- elsewhere; 1954 -

Office de la Recherche Scientifique et Technique Outre-Mer (ORSTOM) 20, rue Bayard, Paris 8e, France.

Published by Office de la Recherche Scientifique et Technique Outre-Mer, Services Scientifiques Centraux (ORSTOM-SSC), 70-74 route d'Aulnay, 93 Bondy, France.

All aspects of veterinary entomology, including food microbiology, hygiene and toxicology.

3.500 title citations. Mini abstracts (12 keywords). Titles in original language.

Output arranged by subject (own classification).

Subject index (alphabetical), geographical and author index, each issue; report and conference index.

Input source: 1.500 primary journals.

Cumulative data base: 11.400 references. Mechanized.

Additional services: full-size copies, library loans.

**BULLETIN BIBLIOGRAPHIQUE
(BIBLIOGRAPHIC BULLETIN)**

BULBICPA

Journal; Card service; 6 x; FF 25,-; 1950 -

Centre Technique du Bois, 10 avenue de Saint Mandé, 75012-Paris, France.

Forest exploitation; wood science and technology; saw-milling; wood industries and furniture.

800 abstracts in FR. Titles in original language and FR.

Output arranged by subject (own classification) and author.

Input source: 400 primary journals (EN, FR, GE, IT, PT and SP).

Cumulative data base: 20.000 references.

Additional services: retrospective retrieval, full-size copies.

**BULLETIN BIBLIOGRAPHIQUE INTERNATIONAL DU MACHINISME AGRICOLE
DU CNEEMA**

BULBIAN

(INTERNATIONAL BIBLIOGRAPHIC BULLETIN OF AGRICULTURAL ENGINEERING OF CNEEMA)

1957 – Bulletin Bibliographique du CNEEMA

1966 – Bulletin Bibliographique International du Machinisme Agricole

1972 – Unification of the two bulletins.

Journal; 12x plus 4 supplements; FF 45,- in France; FF 60,- elsewhere.

Centre National d'Etudes et d'Expérimentation du Machinisme Agricole (CNEEMA), and Commission Internationale de Génie Rural (CIGR), - Section III - Parc de Tourvois, 92160 Antony, France.

Agricultural machinery and equipment; mechanisation of agriculture.

2.000 abstracts in FR and/or EN. Titles in EN, FR, GE or SP.

Output arranged by subject (own classification).

Subject and author indexes, annually, cumulation every 8.000 references.

Input source: 450 primary journals.

Cumulative data base: 25.500 titles.

Additional services: retrospective retrieval, full-size copies.

BULLETIN BIBLIOGRAPHIQUE INTERNATIONAL

BULBIIPA

du Centre de Documentation Internationale des Industries Utilisatrices de Produits Agricoles (CDIUPA) au CERDIA, Avenue des Olympiades, 91 Massy, France

(INTERNATIONAL BIBLIOGRAPHIC BULLETIN OF THE INTERNATIONAL DOCUMENTATION CENTRE OF INDUSTRIAL UTILIZERS OF AGRICULTURAL PRODUCTS, CDIUPA, at CERDIA, Avenue des Olympiades, 91 Massy, France)

Formerly (1967-1971) Bulletin Bibliographique.

Computer print-out; 12 x; FF 500,-

Association pour la Promotion Industrie-Agriculture (APRIA), 43, Rue de Naples, Paris 8e, France.

Scientific, technological and economic aspects of food and food technology.

11.700 abstracts in FR. Titles in original language and FR. Author addresses.

Output arranged by titles of primary journals.

Subject index (alphabetical, 6 keywords, each issue and annually. Controlled vocabulary.

Cumulative data base: 40.600 references. Computerized.

Additional services: retrospective retrieval, full-size and microcopies, translations from major languages into FR.

BULLETIN BIMESTRIEL INACOL
(INACOL BIMONTHLY BULLETIN)

BULBIWE

Journal; 6 x; FB 1.000,-; 1951 -

Institut National pour l' Amélioration des Conserves de Légumes (INACOL), Rue du Long Chêne 78, 1970 Wezembeek-Oppem, Belgium.

Production of vegetable crops; cultural techniques; profitability; technology of processing; quality control of the final products; microbiology; packaging.

400 abstracts in FR or NE. Titles in FR or NE.

Output arranged by subject (own classification).

Subject index, annually.

Input source: 150 primary journals, 50% from secondary sources.

Additional services: full-size copies, library loans.

BULLETIN BIBLIOGRAPHIQUE DE L'INSTITUT TECHNIQUE AGRICOLE DU LIN
(BIBLIOGRAPHIC BULLETIN OF THE INSTITUTE FOR AGRICULTURAL TECHNOLOGY OF FLAX)

BULBILPA

Journal; 6 x; free; 1966 -

Service de Documentation de l'Institut Technique Agricole du Lin, 5, Rue Cardinal-Mercier, 76009 Paris, France.

Flax: production, plant protection, technology.

600 references produced. 430 title citations published. Titles in FR.

Output arranged by subject (own classification) and titles of primary journals.

Input source: 30 primary journals; 75 % from secondary sources.

Cumulative data base: 4.000 references.

Additional services: SDI, retrospective retrieval, translations from EN, GE, RS, CZ into FR.

BULLETINS BIBLIOGRAPHIQUES
SECTIONS VIROLOGIE - BACTERIOLOGIE - IMMUNOLOGIE - GENERALITES
(BIBLIOGRAPHIC BULLETINS. SECTIONS VIROLOGY, BACTERIOLOGY, IMMUNOLOGY, GENERALITIES)

BULBIVLY

Card service: 12 x; free; 1958 -

Institut Français de la Fièvre Aphteuse (IFFA), Laboratoire de Virologie de l'Institut Mérieux, 254, rue Marcel-Mérieux, Lyon 7e, France.

Veterinary medicine.

3.250 title citations. Mini abstracts. Titles in EN or FR.

Output arranged by subject (own classification) and chronologically.

Subject and author indexes. Controlled vocabulary.

Input source: 107 journals.

Cumulative data base: 35.000 references.

Additional services: SDI; retrospective retrieval, full-size copies, translations from GE into FR.

**BULLETIN DE DOCUMENTATION DU CENTRE D'ETUDES DE MATIERES PLASTIQUES
(DOCUMENTATION BULLETIN OF THE CENTRE FOR STUDIES ON PLASTICS)**

BULDOCPA

Journal; 12 x; FF 350.-; 1963 –

Centre d'Etude des Matières Plastiques (CEMP), 21 Rue Pinel, Paris 13e, France.

Plastics in agriculture.

5.000 references, partly of AGRIS interest, produced. Abstracts in FR. Mini abstracts. Titles in original language and FR.

Output arranged by subject (own classification).

Subject index (alphabetical) annually. Controlled vocabulary.

Input source: 80 primary journals.

Cumulative data base: 15.000 references.

Additional services: SDI, retrospective retrieval, full-size copies.

**BULLETIN OF THE EUROPEAN COMMUNITIES. BULLETIN DER EUROPAISCHEN GEMEINSCHAFTEN.
BULLETIN DES COMMUNAUTES EUROPEENNES. BOLLETTINO DELLE COMUNITA' EUROPEE. BULLETIN VAN
DE EUROPESE GEMEENSCHAPPEN**

BULEUCBR

Section entitled: 'Published in the Official Gazette: European Parliament (sessions, written questions and replies, Acts), Council and Commission (regulations, directives and decisions, recommendations and opinions, memoranda, information), recent publications of the Communities, etc.'

Journal; 11 x; FB 300.-; 1968 –

Commission of the European Communities, 200 Rue de la Loi, Bruxelles, Belgium.

Agricultural legislation of the European Communities (Common Market).

5.250 title citations, 3.500 of AGRIS interest. Titles in EN, FR, GE, IT and NL.

Output arranged by publishing institution and chronologically.

Input source: Official Gazette of the European Communities.

**BULLETIN D'INFORMATION DU CORESTA
(CORESTA INFORMATION BULLETIN)**

BULINCPA

Journal 4 x; free to members of CORESTA; 1957 –

Centre de Coopération pour les Recherches Scientifiques Relatives au Tabac (CORESTA), 53, Quai d'Orsay, Paris 7, France.

Tobacco: physiochemistry, biochemistry, pharmacology, biology, genetics, agronomy, pests and diseases, virology, agricultural and industrial technology.

1.250 abstracts in EN and FR. Titles in EN and FR.

Output arranged by subject (own classification).

Author index, each issue and annually.

Input source: 73 primary journals, 25% from secondary sources.

Additional services: full-size copies.

BULLETIN D'INFORMATION
(BULLETIN OF INFORMATION)

BULINFTI

Published jointly with Sugar Industry Abstracts (see SUGINATI) in "La Sucrerie Belge".

Journal; 12 x; FB 1.100,- L. 9.70,-; 1965 -

Raffinerie Tirlemontoise S.A., Bureau de la Documentation Technique, Aandorenstraat 1, B-3300 Tienen, Belgium, and Tate & Lyle Refineries Ltd., Technical Information Department, Plaistow Wharf, London E16, UK.

Agronomy, genetics and biology of sugar beet.

1.000 abstracts (in FR). Mini abstracts (5 keywords). Titles in FR.

Output arranged by subject (own classification).

Controlled vocabulary.

Input source: 500 primary journals.

Cumulative data base: 7.000 references.

Additional services: SDI, retrospective retrieval, full-size copies.

BULLETIN DE L'INSTITUT INTERNATIONAL DU FROID
(BULLETIN OF THE INTERNATIONAL INSTITUTE OF REFRIGERATION)

BULINIPA

Journal; 6 x; \$ 19.00 -; 1908 -

Institut International du Froid, 177, Boulevard Malesherbes, 75-Paris (17e), France.

Refrigeration and its application to agricultural products and food.

1950 abstracts in EN and FR. Titles in original language, EN and FR.

Output arranged by subject (own classification).

Subject index (alphabetical, 5 keywords), geographical and author index annually. Controlled vocabulary.

Additional services: retrospective retrieval, full-size copies, translations from major languages into FR.

BULLETIN DE LA BIBLIOTHEQUE
(LIBRARY BULLETIN)

BULLIBPA

Journal; 52 x; FF 120,-; 1971 -
Card service.

Institut National de la Statistique et des Etudes Economiques (INSEE); 29 Quai Branly, Paris 7e, France.

Agricultural economics and sociology.

15.000 title citations, 2.000 of AGRIS interest. Titles in original language. Author addresses.

Output arranged by subject (own classification).

Subject index (alphabetical) and author index.

Input source: 600 primary journals.

Cumulative data base: 1.500.000 references, 200.000 of AGRIS interest.

Additional services: retrospective retrieval, full-size copies.

BULLETIN METEOROLOGY – CLIMATOLOGY**BULMECPR**

Journal; 10 x; free; 1972 –

Hydrometeorologický ústav – Oborové informační středisko, Praha 5, Holečkova 8, Czechoslovakia.

Agricultural meteorology and climatology.

3.000 references produced, 300 abstracts in CZ published. Titles in original language and CZ or SL.

Output arranged by subject (UDC).

Input source: primary literature.

Cumulative data base: 35.000 references.

Additional services: retrospective retrieval, full-size and microcopies, library loans, translations from major languages into CZ and vice versa.

BULLETIN DE L'O.I.V.**BULOIVPA****(BULLETIN OF THE INTERNATIONAL VINE AND WINE OFFICE)**

Journal: 12 x; FF 60,-; 1928 –

Office International de la Vigne et du Vin, 11, rue Roquépine, Paris (8e), France.

Viticulture and oenology; economic aspects.

600 abstracts in FR. Titles in EN, FR, GE, IT or SP.

Output arranged by subject (UDC).

Subject and author index, annually.

Input source: 130 primary journals; 20% from secondary sources.

Additional services: full-size copies, library loans.

BULLETIN SCIENTIFIQUE**BULSCAZA****SECTION A. SCIENCES NATURELLES, TECHNIQUES ET MEDICALES****(SCIENTIFIC BULLETIN. SECTION A. NATURAL, TECHNICAL AND MEDICAL SCIENCES)**

Journal; 6 x; Din. 50,- in Yugoslavia, Din. 204,-elsewhere; 1956 –

Savjet akademija nauka i umjetnosti SFRJ (Council of the Academies of Sciences and Arts), 41000 Zagreb, Opaticka 18/II, Yugoslavia.

Published by Jugoslovenska akademija znanosti i umjetnosti, 41000 Zagreb, Zrinski trg 11, Yugoslavia.

Agriculture in general.

450 abstracts in EN, GE, FR or RS plus 360 title citations. Titles in EN, GE, FR or RS. Author addresses.

Output arranged by subject (UDC).

Subject index (alphabetical, 1 keyword), each issue and annually. Author index, annually. Alphabetical index by titles of periodicals.

Input source: 194 primary journals (Yugoslavia only) and publications of Yugoslavian authors published elsewhere.

Cumulative data base: 64.700 references (all sciences).

Additional services: library loans.

**BULLETIN SIGNALETIQUE
(INFORMATION BULLETIN)**

BULSIAPA

Journal; Card service; free; 1962 –

Ministère de l'Agriculture, 78, Rue de Varenne, 75 Paris (7e), France.

Agricultural policy; economics of production and transformation; structure of exploitation; rural sociology.

8.000 title citations. Mini abstracts (5 keywords). Sometimes short indicative abstracts. Titles in FR.

Output arranged by subject (own classification).

Subject index (alphabetical), each issue and annually. Controlled vocabulary in preparation.

Input source: 500 primary journals (principally France).

Cumulative data base: 26.000 references.

Additional services: retrospective retrieval, full-size copies.

**BULLETIN SIGNALETIQUE DU CENTRE NATIONAL DE RECHERCHES
ZOOTECHNIQUES
(INFORMATION BULLETIN OF THE NATIONAL ZOOTECHNIC RESEARCH CENTRE)**

BULSICJO

Mimeographed journal; 52 x; FF 100,-; 1954 –

Service de documentation, Centre National de Recherches Zootechniques (CNRZ), 78350-Jouy-en-Josas, France.

Biochemistry and physiology of animals; animal husbandry; domestic animals; animal products.

31.200 title citations. Titles in FR or GE.

Input source: 800 primary journals.

Additional services: full-size copies, library loans, translations from GE, NE, RS, IT, PO into FR.

**BULLETIN SIGNALETIQUE
(INFORMATION BULLETIN)**

BULSIGPA

Section 380. Agronomie, Zootechnie, Phytopathologie.

Industrie Alimentaires; partly also the following sections: 320.

Biochimie ; Biophysique ; 330. Sciences Pharmacologiques, Toxicologie; 340. Microbiologie, Virologie, Immunologie; 360. Biologie et Physiologie Animales; 361. Endocrinologie et Reproduction, Génétique; 370. Biologie et Physiologie Végétales.

Journal; microfiches; magnetic tape; 10 x; FF 270,-; 1940 –

Centre National de la Recherche Scientifique (CNRS), Centre de Documentation, 26, Rue Boyer, 75971 Paris, France.

Agriculture in general and related sciences.

20.000 abstracts in FR on agriculture, plus 25.000 abstracts in FR on related subjects. Titles in original language and FR. Author addresses.

Output arranged by subject (own classification).

Subject index (alphabetical) annually. Author index in each issue and annually. Controlled vocabulary.

Input source: 3500 primary journals.

Computerized.

Additional services: SDI, retrospective retrieval, full-size and microcopies, translations.

BULLETIN SIGNALETIQUE DE PHYSIO-PATHOLOGIE DU LAPIN
(INFORMATION BULLETIN FOR RABBIT PHYSIOPATHOLOGY)

BULSILNO

Card service; 24 x; restricted distribution: exchange; 1968 –

Station de Pathologie Aviaire, Service de Documentation, Institut National de la Recherche Agricole (INRA), B.P. no. 1, Nouzilly, 37380 Monnaie, France.

Physiology and pathology of rabbits, including related fundamental and applied sciences.

700 title citations. Mini abstracts (8-12 keywords). Titles in original language, FR or EN.

Output arranged by subject (own classification) and author.

Controlled vocabulary.

Input source: 500 primary journals, 30% from secondary sources.

Cumulative data base: 3.000 references.

Additional services: retrospective retrieval, full-size copies, inter-library loans (in France only).

BULLETIN SIGNALETIQUE DE LA MAISON NATIONALE DES ELEVEURS
(INFORMATION BULLETIN OF THE NATIONAL LIVESTOCK PRODUCERS CENTRE)

BULSIMPA

Formerly (1967-1972) Bulletin Signalétique de l'Institut Technique de l'Elevage Bovin.

Journal; 12 x; FF 50.-; 1967 –

Maison Nationale des Eleveurs, Service de Documentation (MNE), 149, Rue de Beroy, Paris XII, France

Published by Institut Technique de l'Elevage Bovin (ITEB), 149, Rue de Beroy, Paris (12e), France.

Production and processing of animal products from cattle, sheep, goats, pigs, etc.

5500 title citations. Titles in EN, FR, GE, IT, NE or SP.

Output arranged by subject.

Subject index annually (1 keyword per item in the journal, 4-5 keywords in the file). Controlled vocabulary.

Input source: 1.360 primary journals.

Cumulative data base: 50.000 references (full texts on microfiche).

Additional services: retrospective retrieval, full-size copies, translations from EN and GE into FR.

BULLETIN SIGNALETIQUE. Section 885. NUISANCES
(INFORMATION BULLETIN. Section 885. POLLUTION)

BULSINPA

Centre National de la Recherche Scientifique (CNRS), Centre de Documentation, 26 Rue Boyer, 75971 Paris, France.

Pollution: water and water purification, solid wastes, atmospheric pollution, noise, vibration, legal aspects of pollution.

4.850 abstracts in FR. Titles in original language and FR. Author addresses.

Output arranged by subject (own classification).

Subject index (1) by pollutants, (2) by subject (alphabetical, 5 keywords), each issue and annually; geographical index for atmospheric pollution only (each issue); author index, each issue and annually. Controlled vocabulary.

Input source: primary literature.

Cumulative data base: 8.600 references.

Additional services: SDI, retrospective retrieval, full-size and microcopies, translations.

Remark: Section 885 of the Bulletin Signalétique is also published in Japanese.

BULLETIN SIGNALÉTIQUE DE PATHOLOGIE AVIAIRE
(Formerly 1965 – July 1972) *Bulletin Signalétique de Physio-Pathologie Aviaire.*
(INFORMATION BULLETIN OF AVIAN PATHOLOGY)

BULSIPNO

Card service: 24 x; exchange; 1965 –

Station de pathologie Aviaire, Service de Documentation, Institut National de la Recherche Agricole (INRA), Boite Postale No. 1, Nouzilly, 37380 Monnaie, France.

Physiology and pathology of poultry, including related fundamental and applied sciences.

1.650 title citations. Mini abstracts (8-12 keywords). Titles in original language, FR or EN.

Output arranged by subject (own classification) and author.

Controlled vocabulary.

Input source: 500 primary journals; 30% from secondary sources.

Cumulative data base: 55.000 references.

Additional services: retrospective retrieval, full-size copies, inter-library loans (in France only).

BULLETIN SIGNALÉTIQUE DES REALISATIONS ET ENTREPRISES PILOTE DU DEVELOPPEMENT
(INFORMATION BULLETIN OF ENTERPRISES AND PILOT DEVELOPMENT PROJECTS)

BULSIRPA

Journal and Card Service; 4 x; FF 100.-; 1967 –

Centre de Documentation et d'Information Rurale (CDIR), 92 Rue du Dessous-des-Berges, Paris 13e, France.

Realisation and first experiences of enterprises in agriculture and other fields in France.

200 abstracts in FR. Titles in FR.

Output arranged by subject (own classification).

Input source: primary literature (France only).

BULLETIN SIGNALÉTIQUE DU SERVICE DE DOCUMENTATION DU CENTRE NATIONAL DE
RECHERCHES AGRONOMIQUES

BULSISVE

(INFORMATION BULLETIN OF THE DOCUMENTATION SERVICE OF THE NATIONAL CENTRE FOR AGRONOMIC RESEARCH)

Mimeographed journal; 12 x; FF 130.-; 1953 -, New series 1965 –

Institut National de la Recherche Agronomique (INRA), Service de Documentation du Centre National de Recherches Agronomiques, Route de St.Cyr, 78-Versailles, France.

Biological and physiological aspects of plants, agronomy and plant production.

30.000 title citations. Titles in FR or EN, ES, IT, PT.

Output arranged by subject (own classification).

Taxonomic index, each issue.

Input source: 2.000 primary journals.

Cumulative data base: 600.000 references.

Additional services: retrospective retrieval, full-size and microcopies.

**BULLETIN OF THE TORREY BOTANICAL CLUB. INDEX TO AMERICAN
BOTANICAL LITERATURE**

BULTOBNY

Journal; 6 x; \$ 12.-; 1886 –
Card service; ca. \$ 106.-

New York Botanical Garden, Bronx, New York 10458, USA.

Card service published by G.K.Hall & Co., 70 Lincoln Street, Boston, Massachusetts, 0211, USA.

Taxonomy, phylogeny and floristics of algae, bryophytes, fungi, pteridophytes and spermatophytes, ecology and phytogeography, genetics, morphology, palaeobotany, general botany.

2.200 title citations, 800 of AGRIS interest. Titles in original language.

Output arranged by subject (own classification), and author.

Input source: primary literature.

**BYULETIN KARTOTEKA PO PROBLEMI - DARVOBRABOTVASHTA I MEBELNA
PROMISHLENOST**

BYUKADSO

(WOOD PROCESSING AND FURNITURE INDUSTRY)

Card service; 12 x; Leva 3,50; 1965 -; from 1972 published as Current Awareness Information Bulletin.

Centr za Selskostopanska nauka i technicheska informacija i dokumentacija (BASN) (Center for Scientific, Technical and Economic Information in Agriculture and Forestry), 6 Blvd. Dragan Tzankov, Sofia, Bulgaria.

Wood processing and furniture.

1.800 abstracts in BU. Titles in original language and BU.

Output arranged by subject (own classification).

Subject index (alphabetical, 2 keywords) annually.

Input source: 90 primary journals.

Additional services: retrospective retrieval, microcopies, translations from major languages into BU and vice versa.

**BYULETIN KARTOTEKA PO PROBLEMI - GORSKO STOPANSTVO
DARVODOBIV I ZELENO STROITELSTVO**

BYUKAGSO

(FORESTRY, WOOD PRODUCTION AND PARKS)

Card service; 12 x; Leva 3,50; 1965 -; from 1972 published as Current Awareness Information Bulletin.

Centr za Selskostopanska nauka i technicheska informacija i dokumentacija (BASN), (Center for Scientific, Technical and Economic Information in Agriculture and Forestry), 6 Blvd. Dragan Tzankov, Sofia, Bulgaria.

Forestry, wood production and parks.

2.000 abstracts in BU. Titles in original language and BU.

Output arranged by subject (own classification).

Subject index (alphabetical, 2 keywords) annually.

Input source: 150 primary journals.

Additional services: retrospective retrieval, microcopies, translations from major languages into BU and vice versa.

**BYULETIN KARTOTEKA PO PROBLEMI - VETERINARNA MEDITSINA
(VETERINARY MEDICINE)**

BYUKAVSO

Card service; 12 x; Leva 3,50; 1967 -; from 1972 published as Current Awareness Information Bulletin.

Centr za Selskostopanska nauka i technicheska informacija i dokumentacija (BASN) (Center for Scientific, Technical and Economic Information in Agriculture and Forestry), 6 Blvd. Dragan Tzankov, Sofia, Bulgaria.

Veterinary medicine.

2.000 abstracts in BU. Titles in original language and BU.

Output arranged by subject (own classification).

Input source: 200 primary journals.

Additional services: retrospective retrieval, microcopies, translations from major languages into BU and vice versa.

**BYULETIN ZA SIGNALNA INFORMACIYA - RASTENIEVUDSTVO
(CURRENT AWARENESS INFORMATION BULLETIN - CROP PRODUCTION)**

BYUSIRSO

Journal; 12 x; Leva 3,50; 1970 -

Centr za Selskostopanska nauka i technicheska informacija i dokumentacija (BASN) (Center for Scientific, Technical and Economic Information in Agriculture and Forestry), 6 Blvd. Dragan Tzankov, Sofia, Bulgaria.

Soil science, plant breeding, plant protection, crop production, land development and conservation, agricultural machinery and equipment.

10.700 title citations. Mini abstracts (3 keywords). Titles in original language and BU.

Output arranged by subject (own classification) and keywords.

Subject index (KWOC) in each issue.

Input source: 450 primary journals.

Partly mechanized.

Additional services: retrospective retrieval, microcopies, translations from major languages into BU and vice versa.

**BYULETIN ZA SIGNALNA INFORMACIYA. ZHIVOTNOVUDSTVO
(CURRENT AWARENESS INFORMATION BULLETIN. ANIMAL BREEDING)**

BYUSIZSO

Journal; 12 x; Leva 3,5; 1970 -

Centr za Selskostopanska nauka i technicheska informacija i dokumentacija (BASN), (Center for Scientific, Technical and Economic Information in Agriculture and Forestry), 6 Blvd. Dragan Tzankov, Sofia, Bulgaria.

Animal breeding and nutrition; domestic animals; economics; machinery and equipment; fats, milk and dairy products; meat.

5.300 title citations. Mini abstracts (3-4 keywords). Titles in original language and BU.

Output arranged by subject (own classification).

Subject index (KWOC) in each issue.

Input source: 320 primary journals.

Partly mechanized.

Additional services: retrospective retrieval, microcopies, translations from major languages into BU and vice versa.

**CAFE, CACAO, THE, SECTION DOCUMENTATION
(COFFEE, CACAO, TEA. DOCUMENTATION SECTION)**

CAFCAATPA

Journal; 4 x; FF 35.– in France, FF 40,– elsewhere; 1957 –

Institut Français du Café, du Cacao et autres plantes stimulantes (IFCC); 34, rue des Renaudes, Paris (17e), France.

Agronomy, technology and chemistry of coffee, cocoa, tea and cola.

800 references produced, 90 abstracts in FR published. Titles in original language and FR.

Output arranged by subject (own classification) and author.

Input source: 100 primary journals.

Cumulative data base: 22.000 references.

Additional services: full-size copies.

**CAFE
(COFFEE)**

CAFECATU

Printed bibliography; irregular; free; 1960 –

Centro Interamericano de Documentacion e Informacion Agricola (IICA-CIDIA), Turrialba, Costa Rica.

Coffee: production, economics and technology.

400 title citations. Titles in original language.

Output arranged by subject (own classification).

Author index.

Input source: 1.000 EN, FR, PT and SP primary journals.

Cumulative data base: 10.000 references.

Additional services: retrospective retrieval, full-size copies, library loans.

CALIFORNIA FOREST RESEARCH INFORMATION NETWORK. MONTHLY ALERT

CALFORBE

Computer print-out and microforms; 12 x; free to selected users; 1973 –

U.S. Forest Service, Pacific Southwest Forest and Range Experiment Station, Box 245, Berkeley, California 94701, USA.

Forestry and forest-research related fields, including economics, computer science; statistics etc. with forestry applications.

1.500 title citations. Mini abstracts. Titles in original language and EN.

Output arranged by subject (own classification).

Subject index (FAMULUS) and index of species. Author index, annually.

Input source: primary literature.

Cumulative data base: 10.000 references. Mechanized and computerized.

Additional services: retrospective retrieval, full-size copies, library loans.

CANADIANA**CANADIOT**

Journal; 12 x; \$ 6.- in Canada, \$ 7,50 elsewhere.

National Library of Canada, 395 Wellington Str., Ottawa, Canada.

Agriculture in general.

Title citations, in part of AGRIS interest. Titles in EN or FR. Author addresses.

Output arranged by subject and author.

Subject index (alphabetical, 1 keyword), each issue and annually. Author index, each issue and 3-monthly.

Input source: primary literature (publications of Canadian interest only).

Computerized.

Additional services: library loans.

CARD SERVICE – WATER MANAGEMENT**CARSEWBR**

Card service; 12 x; KCs 0,05 per card; 1962 –

Vyskumný ústav vodného hospodarstva (Research Institute for Water Management), Karloveská cesta 9, Bratislava, Czechoslovakia.

Hydrology, hydraulics, water supply, waste water and effluents.

2.300 abstracts in CZ or SL. Titles in original language and CZ or SL.

Output arranged by subject (UDC) and author.

Input source: 180 primary journals.

Cumulative data base: 25.000 references.

Additional services: retrospective retrieval, full-size and microcopies, library loans, translations from EN, FR, GE into CZ and SL and vice versa.

**CATALOGO COLECTIVO SOBRE REFORMA AGRARIA Y TENENCIA DE LA TIERRA
(COLLECTIVE CATALOGUE ON AGRARIAN REFORM AND LAND TENURE)****CATCORTU**

Computer print-out; irregular; \$ 5.-

Centro Interamericano de Documentacion e Informacion Agricola (IICA-CIDIA) Apartado 74, Turrialba, Costa Rica.
Published by IICA-CIDIA Library, Apartado Aereo 14592, Bogota, Colombia.

Agrarian reform, land tenure and related matters.

6.050 title citations. Titles in original language. Mini abstracts (3 keywords).

Output arranged by subject (own classification) and author.

Subject index (alphabetical) and author index, annually. Controlled vocabulary.

Input source: 100 primary journals (mainly Latin America).

Computerized.

Additional services: SDI, retrospective retrieval, full-size copies, library loans.

CENTRALIZOVANNAYA BIBLIOGRAFICHESKAYA INFORMACIYA (CBI)
(CENTRALIZED BIBLIOGRAPHICAL INFORMATION) 54 subject series

CENBIIMO

Card service; 52 x; 1 Copeck per card; 1961 -

Centralnaya Nauchnaya Selskohozyaistvennaya Biblioteka (VASKHNIL), (Central Scientific Agricultural Library). All-Union Lenin Academy of Agricultural Sciences, Orlikov per., 3, Corpus B, Moscow-107139, USSR.

Agriculture in general (excluding food science and nutrition).

60.000 abstracts in RS. Titles in original language and RS.

Output arranged by subject (own classification and UDC).

Input source: 2.000 primary journals.

Additional services: SDI.

CENTRAL PATENTS INDEX. SECTION C (AGDOC)

CENPAILO

Journal, Card Service, Magnetic tapes and other output forms; 52 x; for sale; 1965 -

Derwent Publications Limited, Rochdale House, 128 Theobalds Road, London WC1X 8RP, UK.

Patents relating to agriculture.

8.000 title citations. Titles in EN.

Output arranged by subject (own classification) and country of origin of patent.

Subject index (by classification, by DERWENT manual code, by DERWENT punched card code), each issue. Author index (patentee/assignee), each issue and every 3 months. Other indexes by patent number, concordance, priority country and date.

Input source: 8.800 patents per week.

Cumulative data base: 60.000 references. Mechanized and computerized.

Additional services: SDI, retrospective retrieval, full-size and microcopies, translations from major languages into EN.

CESKOSLOVENSKA LESNICKA BIBLIOGRAFIE
(CZECHOSLOVAK FORESTRY BIBLIOGRAPHY)

CESLEBPR

Journal; 1 x; free; 1934 -

Výzkumny Ústav Les-Hospodárství a Myslivosti (VULHM), Praha, Zbraslav Strnady 167, Czechoslovakia.

Forestry and game management.

2.200 title citations. Titles in CZ.

Output arranged by subject (ODC).

Subject index (alphabetical) and author index, annually.

Input source: 80 primary journals (Czechoslovakia only).

Cumulative data base: 35.000 references.

Additional services: library loans, translations from all European Languages into RS, FR, EN, GE, NO, SP, SS, HU.

**CHAMBRES D'AGRICULTURE
SUPPLEMENT: DOCUMENTATION AGRICULTURE.**

CHAAGRPA

(CHAMBERS OF AGRICULTURE. SUPPLEMENT: AGRICULTURAL DOCUMENTATION).

Journal; Card service; 4x; FF 16.-; 1952 –

Assemblée Permanente des Chambres d'Agriculture, Service documentation, 9, avenue George V, Paris 8e, France.

Agriculture in general.

400 abstracts in FR. Titles in FR.

Output arranged by subject (own classification).

Input source: 1.000 primary journals (France only).

Cumulative data base: 227.000 references of articles and 111.000 references of books and other documents.

Additional services: retrospective retrieval, full-size copies; library loans.

CHEMICAL ABSTRACTS

CHEABSCO

Journal; 52 x; \$ 2,400; \$1.900 to degree granting institutions; 1907 – Also available in 5 series: Biochemistry Sections (1-20); Organic Chemistry Sections (21-34); Macromolecular Sections (35-46); Applied Chemistry and Chemical Engineering Sections (47-64); Physics and Analytical Chemistry Sections (65-80); \$ 70,- each section.

Microforms, Magnetic tapes *).

Chemical Abstracts Service, Ohio State University, Columbus, Ohio 43210, USA.

Chemical sciences, including application to agriculture and biology.

158.000 references produced, including 48.600 abstracts in EN of AGRIS interest.

Titles in EN. Author addresses.

Output arranged by subject (own classification).

Subject index (alphabetical, 10 keywords) and author index, each issue, 6-monthly, and 5-yearly. Other indexes: Molecular Formula, Ring System, Hetero-Atom-in-Context. Registry Number, Index Guide.

Cumulative data base: 5 million references. Computerized.

Additional services: SDI, retrospective retrieval by 28 licensed organizations.

*) Magnetic tape services include CA CONDENSATES, which contains titles, names and affiliations of authors, bibliographic citations, and keyword subject index entries for all papers, patents and reports covered by CHEMICAL ABSTRACTS; the CA INTEGRATED SUBJECT FILE, which contains the full information content of the volume subject indexes; CHEMICAL-BIOLOGICAL ACTIVITIES, which contains abstracts published in Sections 1 to 5 of CHEMICAL ABSTRACTS; and POLYMER SCIENCE & TECHNOLOGY, which contains abstracts published in Sections 35 to 46.

**CHIRURGIA VETERINARIA
(VETERINARY SURGERY)**

CHIVETZO

Computer print-out; 4 x; DM. 104,-; 1964 –

Chirurgie Veterinaria, Prof. Dr. Karl Amman, Rebwiestr. 36, CH-8702 Zollikon, Switzerland.

Published by Verlag Paul Parey, D-1 Berlin 61, Lindenstr. 44-47, F.R. Germany.

Veterinary medicine: anaesthesiology, surgery, ophthalmology, radiology.

600 abstracts in EN and GE. Titles in original language, EN and GE.

Output arranged by subject.

Subject index (alphabetical, 3-4 keywords) and author index, annually.

Input source: 150 primary journals. Computerized.

Additional services: retrospective retrieval, full-size copies.

1) CLASSIFIED ABSTRACT ARCHIVE OF THE ALCOHOL LITERATURE

CLAABANB

2) QUARTERLY JOURNAL OF STUDIES ON ALCOHOL

1) Punched cards; \$ 100.-; 2) Journal; 4 x; \$ 20.- in USA, \$ 21.- elsewhere; 1940 –

Center of Alcohol Studies, Rutgers University, New Brunswick, New Jersey 08903, USA.

1) Published by Center of Alcohol Studies, Rutgers University, New Brunswick, New Jersey 08903, USA.

2) Published by Journal of Studies on Alcohol Inc., Rutgers University, New Brunswick, New Jersey 08903, USA.

Biochemical, physiological and psychological effects of alcohol; alcoholic beverages; alcohol and nutrition, sociology, culture, anthropology and traffic; alcohol statistics; alcohol education; alcoholism, mental disorders, treatment of alcoholism and medical complications of alcoholism; laws and legislation pertaining to alcohol and alcoholism.

3.500 references produced, 100 abstracts of AGRIS interest published in EN. Titles in original language and EN.

Output arranged by subject (own classification).

1) Subject index (10 keywords), annually. Geographical index. annually.

2) Subject index (20 keywords), annually.

Input source: 150 primary journals, 70% from secondary sources.

Cumulative data base: 55.200 references.

Additional services: retrospective retrieval, full-size copies, library loans.

COMMERCIAL FISHERIES ABSTRACTS

COMFIAWA

Journal; Card Service; 12 x; \$ 3,50 in USA, \$ 4,50,-elsewhere; 1948-

National Marine Fisheries Service, National Oceanic and Atmospheric Administration, US Department of Commerce, Bld. 67, Naval Support Activity, Seattle, Washington 98115, USA.

Biological aspects of fishery science; food science and technology in relation to aquatic resource supply, harvesting, processing, utilization and distribution.

1.750 title citations. Mini abstracts. Titles in original language and EN. Author addresses.

Output arranged by subject (own classification).

Subject and author index, each issue.

Input source: 700 EN primary journals, 5% - from secondary sources.

CONTRIBUCIONES DEL IICA A LA LITERATURA DE LAS CIENCIAS AGRICOLAS

CONILTU

(CONTRIBUTIONS OF THE IICA TO THE LITERATURE OF THE AGRICULTURAL SCIENCES)

Printed bibliography; irregular; free; 1968 –

Centro Interamericano de Documentacion e Informacion Agricola (IICA-CIDIA), Turrialba, Costa Rica.

Agriculture in general.

230 title citations. Titles in SP, PT and EN.

Output arranged by subject (own classification).

Subject index (alphabetical) and author index.

Input source: primary literature from Latin America.

Cumulative data base: 4.700 references.

Additional services: retrospective retrieval, full-size copies, library loans.

CONTENTS OF RECENT ECONOMICS JOURNALS

CONREELO

Journal; 52 x; £ 6.- in the UK, £7,25 elsewhere

Department of Trade and Industry Library Services, Department of Trade and Industry, Central Library, 1 Victoria Street, London SW1H 0ET, UK.

Economics, including finance, taxation, agriculture, labour, regional and business economics.

Title citations. Titles in EN.

Input source: 170 EN primary journals (or journals in other languages which have English summaries).

Note: Current awareness service publishing copies of the contents pages of primary journals, reports, working papers, management studies, industrial relations, etc. Obtainable from HMSO, P.O. Box 569, London SE1, UK.

**CONSTRUCTIONS RURALES - BULLETIN DOCUMENTAIRE
(AGRICULTURAL BUILDINGS - DOCUMENTARY BULLETIN)**

CONRURPA

Journal; irregular; free; 1968 -

Ministère de l'agriculture, Bureau d'Etudes des Batiments Ruraux, 89 Rue du Cherche Midi, Paris 6e, France.

Farm buildings (equipment, organisation of work, influence of buildings on animals, feed stores); economics; legislation; relation of buildings to landscape; pollution caused by animal husbandry.

1.200 references produced, 50 abstracts published in FR. Titles in original language.

Input source: 50 primary journals.

Cumulative data base: 10.000 references.

**COTON ET FIBRES TROPICALES
(COTTON AND TROPICAL FIBRES)**

COTFITPA

Journal; Card service; 4 x; on sale; 1946 -

Institut de Recherches du Coton et des Textiles Exotiques (IRCT), 34, rue des Renaudes, 75-Paris (17e), France.

Published by SETCO, 42 rue Scheffer, 75-Paris (16e), France.

Agronomic aspects (including genetics, entomology and phytopathology) and technological aspects of tropical fibre crops (cotton, sisal, jute, ramie, kenaf).

1.730 title citations. Titles in original language or FR.

Output arranged by subject (own classification).

Input source: 200 primary journals, 40% from secondary sources.

Cumulative data base: 25.000 references.

Additional services: full-size copies.

COTTON GROWING REVIEW ABSTRACTS**COTGRRLO**

Journal; 4 x; £ 3,-.

Cotton Research Corporation, 12 Chantrey House, Eccleston Street, London SW1 W9LP, UK.

All aspects of cotton production and agronomy.

185 abstracts in EN. Titles in EN.

Output arranged by subject (own classification).

Subject index (alphabetical) and author index, annually.

Input source: primary literature.

CSIRO ABSTRACTS**CSIABSME**

Journal; 12 x; free; 1953 –

Central Library and Information Services, Commonwealth Scientific and Industrial Research Organization (CSIRO), P.O. Box 89, East Melbourne, Victoria 3002, Australia.

Science and technology in general, including agriculture and related subjects.

1.000 abstracts in EN of AGRIS interest. Titles in EN. Authors addresses.

Output arranged by subject (own classification).

Subject index (alphabetical, 4 keywords) and author indexes, each issue and annually. Geographical index, annually. Controlled vocabulary.

Input source: Official research papers published by CSIRO officers (Australia, Papua/New Guinea only).

Additional services: SDI, retrospective retrieval.

CSIR RESEARCH REVIEW. NAVORSINGSOORSIG VAN DIE WNNR**CSIRREPR**

Journal; 2 x; free; 1958 –

South African Council for Scientific and Industrial Research, P.O. Box 395, Pretoria, Republic of South Africa.

All aspects of biology, including botany, zoology, microbiology, wood technology, hydrology, environmental science, food science, etc.

200 title citations of AGRIS interest. Mini abstracts. Titles in EN and AF.

Output arranged by numerical sequence.

Subject index (KWIC) and author index, each issue and 5-yearly cumulation.

Input source: primary literature (Republic of South Africa only).

Cumulative data base: 9.675 references. Mechanized and computerized.

Additional services: full-size copies, library loans, translations from 14 European languages into EN, DE, PT.

CSMCRI DOCUMENTATION LIST**CSMDOLBH**

Journal; 12 x –

Central Salt and Marine Chemicals Research Institute, Takteshwar, Bhavnagar-2, Gujarat, India.

Water desalination, marine chemicals, marine algae, agricultural use of salt water.

1.400 references produced, 480 title citations published. Titles in EN. Author addresses.

Output arranged by subject (own classification).

CURRENT ADVANCES IN PLANT SCIENCE

CURADPOX

Journal; 12 x; £ 20.- to libraries, multi-user organizations and groups, £ 7.- to individuals; 1972 –

Sciences, Engineering, Medical and Business Data Ltd., Headington Hill Hall, Oxford OX3 0BJ, UK.

All aspects of plant sciences, including agronomy, horticulture, plant breeding, plant pathology. Agricultural meteorology and soil science.

17.000 title citations in EN, 4.300 of AGRIS interest. Titles in original language and EN, FR or GE. Author addresses.

Output arranged by subject (own classification).

Author index, each issue.

Input source: 650-700 primary journals, 30-40% from secondary sources.

CURRENT AWARENESS - SELECTIVE DISSEMINATION SERVICES OF THE S.D.C.

CURAWADU

Card service; 52 x; £ 20,- in the UK, £ 30,- elsewhere; 1964 –

Scientific Documentation Centre Ltd., Halbeath House, Dunfermline, Fife, KY12 0TZ, UK.

Agriculture in general and related sciences.

300.000 references produced, 30.000 title citations of AGRIS interest published.

Titles in EN or FR, GE, SP and IT. Author addresses.

Output arranged by subject (own classification).

Controlled vocabulary.

Input source: 3.250 primary journals.

Cumulative data base: 1.250.000 references.

Additional services: SDI, retrospective retrieval, full-size and microcopies, translations from FR, GE, RS into EN.

**CURRENT BIBLIOGRAPHY ON SCIENCE AND TECHNOLOGY.
BIBLIOGRAPHY OF THE ENVIRONMENTAL POLLUTIONS'****TECHNICAL DIGEST INFORMATION ON FOOD INDUSTRY**

CURBISTO

Card services.

Magnetic tapes; for subscription prices see note '); 1958 –

The Japan Information Center of Science and Technology (JICST), 5-2, 2-tyome, Nagatyo, Tiyoda-Ku, C.P.O.Box 1578, Tokyo, Japan.

Biochemistry; agricultural chemistry; food science and technology; fermentation industry; paper and pulp; agricultural machinery; nutrition; fishery science; forestry; fibres and textiles; animal husbandry; pollution.

414.300 abstracts in JA, 12.500 of AGRIS interest. Titles in original language and JA.

Output arranged by subject (UDC).

Subject index (alphabetical, 1,5 keyword) annually. Author index.

Input source: 7.400 primary journals.

Cumulative data base: 3.874.000 references. Computerized.

Additional services: SDI, retrospective retrieval, full-size and microcopies, translations from JA into EN, GE, FR, RS, SP and vice versa.

Note '): Chemistry series incl. index (three times a month): subscr. \$ 206.- (Y 53,000) per year; Mechanical Engineering series incl. index (semi-monthly): subscr. \$ 184.50 (Y 48,500) per year; Electrical Engineering series incl. index (semi-monthly): subscr. \$ 129.- (Y 33,000) per year; Earth Science, Mining and Metallurgy series (semi-monthly): subscr. \$ 114.- (Y 29,000) per year; Civil Engineering and Architecture series (semi-monthly): subscr. \$ 116.50 (Y 30,500) per year; Pure and Applied Physics series (semi-monthly): subscr. \$ 127.- (Y 33,500) per year; Atomic Energy (Isotopes and Radiation Chemistry) series (monthly): subscr. \$ 87.- (Y 23,000) per year; Management Science series (semi-monthly): subscr. \$ 71.- (Y 18,500) per year; Complete Chemical Abstracts of Japan (NIPPON KAGAKU SORAN) (monthly): subscr. \$ 109.- (Y 29,000) per year. Cost estimation is made at the exchange rate of 1 US dollar is 360 yen.

1) CURRENT CONTENTS, AGRICULTURE, BIOLOGY AND ENVIRONMENTAL SCIENCES **CURCOAPH**
2) CURRENT CONTENTS, LIFE SCIENCES

Journal; 52 x; \$ 120.- regular rate, \$ 95.- educational rate, in USA, Canada and Mexico \$ 130.-, elsewhere \$ 105.-, for 2) subject indexes available at \$ 60.- extra; (1) 1969 –.

Institute for Scientific Information, 325 Chestnut Street, Philadelphia, USA.

1) Agriculture in general, including biological aspects, marine biology and fisheries, food science and technology, pollution,
2) Animal and plant biology.

Title citations. Titles in original language. Author addresses.

Output arranged by titles of primary journals.

Subject index (alphabetical) for (2) only, each issue. Author index, each issue.

Input source: 1) 800 and 2) 1.150 primary journals.

Additional services: full-size copies.

Notes: Other services available from the Institute of Information Science include: ASCA (Automatic Subject Citation Alert), ASCAtopics, Science Citation Index, Permintern Subject Index, Serial Sciences Citation Index, ISI Magnetic Tapes, Current Abstracts of Chemistry and Index Chemicus, Chemical Substructure Index, Index Chemicus Registry System.

CURRENT INDEX TO CONFERENCE PAPERS: SCIENCE AND TECHNOLOGY **CURINCNE**

Journal; 12 x; \$ 110,-, \$ 145,- for annual cumulation; 1970 –

CCM Information Corporation, 866 Third Avenue, New York, New York 10022, USA.

Science and technology in general, including animal and plant sciences, biochemistry, biology.

Title citations. Titles in EN. Author addresses.

Output arranged by subject and chronologically.

Subject index (modified KWIC, 6 keywords) and author index, each issue and annually.

Input source: primary literature.

Computerized.

CURRENT LITERATURE ON WATER (CLOW) **CURLIWPR**

Journal; 12 x; free; 1966 –

National Institute for Water Research, P.O. Box 395, Pretoria, South Africa.

Freshwater biology; biotechnology; physico-chemical technology of water supply; aqueous solid waste treatment; treatment and disposal of mineralized effluents; desalination.

3.700 title citations. Mini abstracts (6 keywords). Titles in EN.

Output arranged by subject (own classification) and author.

Subject index (KWOC) and author index, annually.

Input source: 245 primary journals.

Cumulative data base: 9.700 references. Mechanized and computerized.

Additional services: full-size copies, library loans, translations from 14 European languages into EN, PT, GE.

DAIRY SCIENCE ABSTRACTS**DAISCASH**

Journal; 12 x; £ 12,- in CAB-associated countries, £ 30,- elsewhere; 1939 –

Commonwealth Bureau of Dairy Science and Technology, Shinfield, Reading, UK. Unit of Commonwealth Agricultural Bureaux, Farnham Royal, Slough SL2 3BN, UK.

Published by Commonwealth Agricultural Bureaux, Farnham Royal, Slough SL2 3BN, UK.

Dairy science and technology, including all aspects of milk production, processing, and physiology of lactation; bacteriology, chemistry, physics of milk; milk products.

5.370 abstracts in EN and 640 title citations. Titles in EN. Author addresses.

Output arranged by subject (own classification).

Subject index (alphabetical, 5 keywords) and author index, each issue and annually. Controlled vocabulary.

Input source: 1100 primary journals.

Cumulative data base: 100.000 references. Computerized 1973.

Additional services: SDI, retrospective retrieval, annotated bibliographies, full-size and microcopies, library loans, translations into EN.

DISSERTATION ABSTRACTS**DISABSAN****FORMERLY (1938-1952) MICROFILM ABSTRACTS**

Journal; 12 x; 1952 – Prices in USA: Dissertation Abstracts (A) \$ 60.-, (B) \$ 60.-, (A) + (B) is \$ 100.-; Prices elsewhere: Dissertation Abstracts (A) \$ 95.-, (B) \$ 95.-, (A) + (B) \$ 135.-.

University Microfilms, Ann Arbor, Michigan 48106, USA.

Agriculture in general.

16.750 abstracts in Dissertation Abstracts A, Humanities, plus 19.000 abstracts in Dissertation Abstracts B, Science and Technology; 2.200 of AGRIS interest in (A). Titles in EN. Author addresses.

Output arranged by subject (own classification).

Subject index (KWOC) and author index, each issue and annually.

Input source: published theses and dissertations (USA and Canada only).

Additional services: full-size and microcopies.

**DOCUMENTATION AGRICOLE - FICHES ANALYTIQUES
(AGRICULTURAL DOCUMENTATION. ANALYTICAL CARDS)****DOCAGRAM**

Card service; 2 x; exchange; 1970 –

Service de Documentation Agricole - Station Experimentale du Centre Technique des Conserves de Produits Agricoles (CTCPA), Avenue Paul Chandel, 80044 Amiens-Cedex, France.

Conservation of agricultural and horticultural products; plant production in general.

3.000 references produced, 855 abstracts in FR published. Titles in FR.

Output arranged by subject (own classification).

Input source: 96 FR, EN, GE, NE primary journals, 60% from secondary sources.

Cumulative data base: 9.000 references.

Additional services: full-size copies.

DOCUMENTATIO GEOGRAPHICA
(GEOGRAPHICAL DOCUMENTATION)

DOCGEOBO

Journal; 1 x; DM 65.-; 1966 –

Institut für Landeskunde in der Bundesforschungsanstalt für Landeskunde und Raumordnung, D-53 BONN-BAD GODESBERG, Michaelstr. 8, F.R.Germany.

Agricultural geography.

4.500 title citations, in part of AGRIS interest. Mini abstracts. Titles in original language and GE.

Output arranged by subject (UDC).

Subject index (alphabetical), geographical and author index, each issue.

Cumulative data base: 20.000 references. Mechanized and computerized.

Additional services: SDI, retrospective retrieval, full-size copies, library loans.

DOCUMENTATION PESTICIDES

DOCPECVE

Journal; Punched cards; 12 x; FF 1800,-; 1965 –

Société d'Etudes et de Recherches pour le Développement Industriel Chimique (SERDIC), 8, Rue Albert Joly, 78-Versaille, France.

Plant health; phytopathology; weeds; agricultural zoology.

800 abstracts in FR. Titles in FR.

Output arranged by titles of documents.

Input source: 200-400 primary journals.

Additional services: SDI, retrospective retrieval, full-size copies; translations.

DOKUMENTATION ABFALL. LITERATURSCHNELLDIENST
(WASTE DOCUMENTATION. RAPID AWARENESS SERVICE)

DOKABLBE

Journal; 12 x; DM 70.-; 1972 –

Zentralstelle für Abfallbeseitigung beim Bundesgesundheitsamt, (ZfA), D-1, Berlin 30, Stauffenbergerstrasse, 14, F.R. Germany.

Processing and removal of solid wastes, including agricultural wastes.

2.000 title citations, 500 of AGRIS interest. Titles in original language.

Output arranged by titles of primary journals.

Input source: 200 primary journals, 5% from secondary sources.

Cumulative data base: 4.000 references.

Additional services: full-size copies.

DOKUMENTACNI LISTKOVA SLUZBA (DLS)
(AGRICULTURAL INFORMATION CARD SERVICE)

DOKL..PR

Card service; 6-24 x; KCs 0,05 per card; 1969 –

Ustav vedeckotechnických informací (UVTI) (Institute for Scientific and Technical Information), Praha 2 – Vinohrady, Slezská 7, Czechoslovakia.

72.000 references produced, 45.350 abstracts in CZ or SL plus 7.300 title citations published. Titles in original language and CZ or SL. Author addresses. The service is issued in 8 main sections (see below). Each section is subdivided into series (in total 42). Each series is available separately on subscription.

Output arranged by subject (UDC); 3-4 keywords.

Input source: 1.800 primary journals.

Cumulative data base: 2.500.000 references.

Additional services: SDI and retrospective retrieval, full-size and microcopies, library loans, translations from CZ, SL into EN, RS, GE, FR and vice versa.

DOKUMENTACNI LISTKOVA SLUZBA. RADY FYTOPATOLOGIE I-IV
(PHYTOPATHOLOGY. SERIES I-IV)

DOKLFYPR

6 – 12 x.

Phytopathology, plant protection, diseases, pesticides, etc.

5.700 references produced, 5.070 abstracts and 320 title citations published.

Input source: 100 primary journals.

DOKUMENTACNI LISTKOVA SLUZBA. RADA OCHRANA PRIRODY A TVORBA KRAJINY
(PROTECTION OF NATURE AND LANDSCAPE)

DOKLOPTR

6 x.

Conservation of nature and landscape.

1.500 references produced, 700 abstracts published.

Input source: 110 primary journals.

Cumulative data base: 220.000 references.

DOKUMENTACNI LISTKOVA SLUZBA. RADY ROSTLINNA VYROBA I – XII
(PLANT PRODUCTION. SERIES I – XII)

DOKLRVPR

6 – 12 x.

Plant production; soil science, fertilization and plant nutrition; irrigation, land reclamation.

13.700 references produced, 11.160 abstracts plus 1.700 title citations published.

Input source: 400 primary journals.

**DOKUMENTACNI LISTKOVA SLUZBA. RADA VETERINARNI MEDICINA
(VETERINARY MEDICINE)**

DOKLVMPR

24 x.

2.900 abstracts plus 950 title citations.

Input source: 270 primary journals.

**DOKUMENTACNI LISTKOVA SLUZBA. RADY ZEMEDEL'SKA EKONOMIKA (I-V)
(AGRICULTURAL ECONOMICS. SERIES I-V)**

DOKLZEPR

6 – 12 x.

I Agricultural economics and policy. II Organization of production and labour on farms. III Economics of special subject fields. IV Mathematical methods and statistics. V Rural sociology, agricultural education and legislation.

4.600 references produced, 3.600 abstracts plus 220 title citations published.

Input source: 220 primary journals.

**DOKUMENTACNI LISTKOVA SLUZBA. RADY ZAKLADNI A POMOCNE VEDY
(FUNDAMENTAL AND FRINGE SCIENCES)**

DOKLZPPR

6 – 12 x.

Zoology, botany, genetics, virology, radiology, biology, chemistry, methods of research, etc.

4.800 references produced, 2.600 abstracts plus 1.700 title citations published.

Input source: 200 primary journals.

**DOKUMENTACNI LISTKOVA SLUZBA. RADY ZEMEDEL'SKA TECHNIKA (I-IV)
(MACHINERY AND BUILDINGS. SERIES I-IV)**

DOKLZTPR

6 – 24 x.

8.700 references produced, 7.300 abstracts and 1.200 title citations published.

Input source: 200 primary journals.

**DOKUMENTACNI LISTKOVA SLUZBA. RADY ZIVOCISNA VYROBA (I-IX)
(ANIMAL HUSBANDRY. SERIES I-IX)**

DOKLZVPR

4–24 x.

I Animal husbandry in general. II Cattle. III Pigs. IV Poultry. V Sheep and goats. VI Bees and other insects. VII Horses. VIII Fish. IX Rabbits and fur bearers. X Forage production. XI Animal nutrition and feeding.

10.300 references produced, 12.450 abstracts plus 2.570 title citations published.

Input source: 260 primary journals.

DOKUMENTATION FÜR UMWELTSCHUTZ UND LANDESPFLEGE**DOKUMLBO**

Formerly (1954-1971) MITTEILUNGEN ZUR LANDESPFLEGE.

(DOCUMENTATION ON ENVIRONMENTAL PROTECTION AND LANDSCAPE CONSERVATION)

Journal; 4 x; DM 40,-; 1954 –

Bundesanstalt für Vegetationskunde, Naturschutz u. Landschaftspflege. D-53 Bonn-Bad Godesberg 1, Heerstrasse 110, F.R. Germany.

Conservation of nature; landscape planning; national parks; environmental sciences.

3.400 references produced, 900 abstracts in GE published. Mini abstracts (5 keywords). Titles in original language and GE.

Output arranged by subject (own classification).

Subject index (alphabetical, for 1966-1969 only). Controlled vocabulary.

Input source: 600 GE, also EN and FR primary journals, 12% from secondary sources.

Cumulative data base: 40.000 references.

Additional services: retrospective retrieval.

DOKUMENTATION WASSER (DW)**DOKWASDU**

(WATER DOCUMENTATION)

Card service; Microforms; 12 x; DM 180,-; 1960 –

Deutsche Dokumentationszentrale Wasser e. V., D-4000 Düsseldorf, Rochusstr. 36, F.R. Germany.

Published by Erich Schmidt Verlag, D-4800 Bielefeld, Postfach 7330, Herforderstr. 10, F.R. Germany.

Water engineering; marsh drainage; soil science; agricultural meteorology; river training; dike engineering; environmental hygiene.

8.000 references produced, including 700 abstracts in GE of AGRIS interest. Mini abstracts (3 keywords). Titles in original language and GE.

Output arranged by subject (UDC) and author.

Controlled vocabulary.

Input source: 1.000 primary journals, 75% from secondary sources.

Cumulative data base: 150.000 references.

Additional services: SDI, retrospective retrieval, full-size and microcopies, library loans, translations from EN, FR, RS, SP, CZ, HU into GE and NE.

ECONOMIC ABSTRACTS**ECOABSHA**

Journal; 24 x; Dfl 36,40; 1936 –

Card service; Dfl 0,25 per card

Library and Documentation Center of the Economic Information Service (Ministry of Economic Affairs) 151, Bezuidenhoutseweg, (The Hague, Netherlands).

Published by N.V. Martinus Nijhoff, 9-11 Lange Voorhout, The Hague, Netherlands.

Theoretical and applied aspects of agricultural economics.

3.000 abstracts original language. Titles in original language.

Output arranged by subject (UDC).

Subject index (alphabetical, 2,5 keywords), each issue and annually; geographical index, each issue; author index, each issue and annually.

Input source: about 3000 primary journals.

Cumulative data base: 3.000.000 references.

Additional services: SDI, retrospective retrieval, full-size copies, library loans.

ENTOMOLOGY ABSTRACTS**ENTABSLO**

Journal; 12 x; £ 40,-; 1969 –

Information Retrieval Limited, 1 Falconberg Court, London W1V 5FG, UK.

All aspects of entomology sensu latissimo, equivalent here to terrestrial arthropoda, including species of agricultural and veterinary importance. (Excluded are chemistry of insecticides, behaviour of pesticide residues, toxicology for mammals and birds).

2.250 Abstracts in EN. Titles in original language and/or EN. Author addresses.

Output arranged by subject (own classification).

Subject index (alphabetical, 10-12 keywords) annually. Author index, each issue and annually. Controlled vocabulary.

Input source: 3.000 primary journals.

**ETUDES RURALES
(RURAL STUDIES)****ETURURPA**

Ecole Pratique des Hautes Etudes, Centre de Sociologie Rurale, 10, Rue Monsieur le Prince, 75006-Paris, France.

Published by Mouton, Paris - La Haye.

Agricultural economics and rural sociology, history and geography of agriculture.

140 abstracts in FR and 235 title citations. Titles in FR.

Output arranged by titles of primary journals and authors.

Input source: 70 primary journals (France only).

EXCERPTA MEDICA**EXME..AM**

Journal; Computer print-out; Magnetic tapes; ca. 20 x; Dfl. 135.- per volume of 4.000 abstracts (2,5 vol. per year); 1947 –

Excerpta Medica Foundation, P.O. Box 1126, Amsterdam C, The Netherlands.

Published by Associated Scientific Publishers, Jan van Galenstraat 335, Amsterdam, The Netherlands.

Abstracts in EN. Titles in original language and EN. Author addresses.

Output arranged by subject (own classification).

Subject index (KWIC, 4-6 keywords) and author index, each issue and every 5 months. Controlled vocabulary.

Input source: 3.400 primary journals. Computerized.

Additional services: SDI, retrospective retrieval, full-size and microcopies, translations into major languages.

EXCERPTA MEDICA, section 5 – GENERAL PATHOLOGY AND PATHOLOGICAL ANATOMY (1947) EXME05AM

Comparative pathology; pathology as applied to veterinary medicine and experimental animals.

10.000 References produced, 600 abstracts of AGRIS interest published.

Cumulative data base: 100.000 references.

EXCERPTA MEDICA, section 17 – PUBLIC HEALTH, SOCIAL MEDICINE AND HYGIENE (1955) EXME17AM

Public health aspects of veterinary medicine, vectors, epidemiology and epizootology, food microbiology and hygiene, veterinary hygiene, milk and dairy hygiene, human nutrition, medical zoology, pesticides.

10.000 references produced, 2.850 abstracts of AGRIS interest published.

Cumulative data base: 50.000 references.

EXCERPTA MEDICA, section 29 – BIOCHEMISTRY (1969) EXME29AM

Dfl. 170,- per volume of 4.000 abstracts (2,5 vol. per year).

Human nutrition, biochemistry of laboratory animals and small mammals.

15.000 references produced, 2.250 abstracts of AGRIS interest published.

Cumulative data base: 150.000 references.

EXCERPTA MEDICA, section 30 – PHARMACOLOGY AND TOXICOLOGY (1969) EXME30AM

Food toxicology, toxicology in experimental animals, comparative veterinary toxicology, experimental and clinical pharmacology, including veterinary pharmacology, pesticides.

15.000 references produced, 1.800 abstracts of AGRIS interest published.

Cumulative data base: 150.000 references.

EXCERPTA MEDICA, section 37 – DRUG LITERATURE INDEX (1969 –) EXME37AM

12 x; Dfl. 3.600 in Europe, \$ 2.000 in USA and Canada.

Effect of chemical compounds, including drugs and potential drugs, toxic substances, hormones, etc. on biological substrates, in vivo and in vitro.

55.000 references produced, 29.000 title citations of AGRIS interest published. Mini abstracts (10 keywords).

Output arranged chronologically by input into system. Subject and author indexes, each issue and every 6 months; alphabetical indexes for generic and chemical names, trade names, manufacturers and new drugs; numerical index by UDC number.

Input source: 3.700 primary journals.

Cumulative data base: 200.000 references.

EXCERPTA MEDICA, section 46 – ENVIRONMENTAL HEALTH AND POLLUTION CONTROL (1971) EXME46AM

12 x; Dfl. 182.-

Pollution of water and soil, effects of pollution on plants and animals, measurement and control of pollution, pesticides, food toxicology.

6.600 references produced, 5.500 abstracts of AGRIS interest published.

Output arranged by subject (own classification).

Subject index (alphabetical, 4 keywords) and author index in each issue and annually.

Input source: 20.000 primary journals.

Cumulative data base: 6.600 references.

FAI ABSTRACTS SERVICE**FAIABSNE**

Journal; 12 x; Rupees 10/-; 1968 –

Fertiliser Association of India, Near Jawaharlal Nehru University, New Delhi 110057, India.

Fertiliser technology and use, including soil science, agronomy, fertiliser marketing, etc.

Title citations. Mini abstracts. Titles in EN.

Output arranged by subject (own classification).

Input source: 150 primary journals (mainly EN), 5% from secondary sources.

Additional services: retrospective retrieval, full-size and microcopies, library loans.

FAO DOCUMENTATION, CURRENT BIBLIOGRAPHY**FAODOCRO**

Journal; Microforms; 12 x; free; 1967 –

Food and Agriculture Organization of the United Nations (FAO), Documentation Centre, via Terme di Caracalla, 00100 Roma, Italy.

Agriculture in general, including forestry, fisheries and nutrition.

4.500 title citations. Mini abstracts (15 keywords). Titles in original language and EN.

Output arranged chronologically by accession number.

Subject index (KWIC, 15 keywords) and author index, annually; monthly editions on microfiche only. Geographical index incorporated in subject index. Controlled vocabulary.

Input source: FAO papers.

Cumulative data base: 37.000 references. Computerized.

Additional services: retrospective retrieval, full-size and microcopies.

FARM BUILDINGS DIGEST, ABSTRACT SECTION**FARBUDKE**

Journal; 4 x; £ 3,15; 1967 –

Farm Buildings Centre, National Agricultural Centre, Kenilworth, Warwicks, CV8 2LG, UK.

Farm houses, roads, other buildings and associated fixed and mechanical equipment.

200 references produced, 170 abstracts in EN published. Titles in EN.

Output arranged by subject (own classification).

Input source: 160 primary journals, less than 10% from secondary sources.

Cumulative data base: 4.200 references.

Additional services: SDI, retrospective retrieval, full-size copies.

FERTILIZER ABSTRACTS**FERABSMU**

Journal; 12 x; \$ 25,-in USA, \$ 40,- elsewhere; 1968 -

Fertilizer Abstracts Service, National Fertilizer Development Center, Tennessee Valley Authority, Muscle Shoals, Alabama, USA.

Technology, marketing and use of fertilizers.

2.150 abstracts in EN. Titles in EN. Author addresses.

Output arranged by subject (own classification).

Subject index (alphabetical, 2 keywords), each issue and annually.

Input source: 300-400 primary journals, 30% -from secondary sources.

Cumulative data base: 8.000 references.

FICHES ANALYTIQUES DU S.E.I.**FICANSVE**

(ANALYTICAL CARDS OF THE SERVICE FOR EXPERIMENTATION AND INFORMATION)

Card service; FF 148,50 in France, FF 160,- elsewhere; 1961 -

Service d'Expérimentation et d'Information (S.E.I.), Section Documentation, Institut Nationale de la Recherche Agronomique (INRA), Centre Nationale de la Recherche Agronomique (CNRA), Route de St. Cyr, Versailles-78, France.

Agriculture in general.

12.000 references produced, 2.000 abstracts in FR published. Titles in FR.

Output arranged by subject (own classification).

Input source: 750 primary journals.

Cumulative data base: 70.000 references.

Additional services: retrospective retrieval, bibliographies, full-size copies, translations from BU, CZ, PO, RS into FR.

**FICHES SIGNALETIQUES D'AGRONOMIE TROPICALE
(INFORMATION CARDS OF TROPICAL AGRONOMY)****FICSIANO**

Card service; 12 x; FF 150.-; 1954 -

Institut de Recherches Agronomiques Tropicales et des Cultures Vivrières (IRAT), Centre de Documentation, 45 bis, avenue de la Belle Gabrielle, 94/30 Nogent sur Marne, France.

Published by IRAT-Direction, 110 rue de l'Université, Paris 7e, France.

Tropical agriculture: soils, plant biology, special crops and plantations, plant protection, food, economics.

6.000 title citations. Titles in original language and FR.

Output arranged by subject (own classification).

Subject index, each issue.

Input source: 700 primary journals.

Additional services: full-size copies, library loans, translations from EN, GE, SP, PT, IT into FR.

**FICHES SIGNALETIQUES, INRA-ECONOMIE
(INFORMATION CARDS. INRA-ECONOMICS)**

FICSIEPA

Card service; 12 x; FF 55.-; 1964 -

Institut National de la Recherche Agronomique (INRA), Station Centrale d'Economie et de Sociologie Rurale, 4, rue de Lasteurie, 75-Paris 16e, France.

Agricultural economics and rural sociology.

1.400 title citations. Mini abstracts (5 keywords). Titles in EN or FR.

Output arranged by subject.

Subject index (alphabetical, not published).

Input source: primary literature, 10 % - from secondary sources.

Cumulative data base: 10.000 references.

Additional services: SDI, full-size copies, library loans, translations from EN, GE, DA, NO, SS into FR.

FIELD CROP ABSTRACTS

FIECRAHU

Journal; 4 x; £ 10.- in CAB-associated countries, £ 25,-elsewhere; 1948 -

Commonwealth Bureau of Pastures and Field Crops, Hurley, Berks. SL6 5LR, UK.

Unit of Commonwealth Agricultural Bureaux, Farnham Royal, Slough SL2 3BN, UK.

Published by Commonwealth Agricultural Bureaux, Farnham Royal, Slough SL2 3BN, UK.

Agronomy and biology of temperate and tropical annual cereal, legume, sugar, oil and fibre crops and of tobacco.

5.550 abstracts in EN. Titles in EN. Author addresses.

Arrangement by subject (own classification).

Subject index (alphabetical, 8 keywords), annually. Author index, each issue and annually.

Input source: 1.200 primary journals, 6 % - from secondary sources.

Cumulative data base: 54.000 references. Computerized 1973.

Additional services: retrospective retrieval, annotated bibliographies, full-size copies, library loans.

FLOUR MILLING AND BAKING RESEARCH ASSOCIATION ABSTRACTS

FLOMIBRI

Formerly (1948-1967) British Baking Industries Research Association Abstracts

Journal; 6 x; £15,75; 1948 -

Flour Milling and Baking Research Association, Chorleywood, Rickmansworth, Herts, WD3 5SH, UK.

Cereals, flour-milling and baking; nutrition; microbiology; packaging; legislation.

2.000 references produced, 1.200 abstracts in EN published. Titles in EN.

Output arranged by subject (own classification).

Subject index (alphabetical, 3 keywords) and author index, annually.

Input source: 300 primary journals.

Cumulative data base: 50.000 references.

Additional services: retrospective retrieval, full-size copies, library loans, translations from GE, FR, RS into EN.

FOOD IN BRIEF AND CHEESE ABSTRACTS**FOODBRCNE**

Card service; irregular; free (by arrangement with the publisher).

Pfizer Chemicals Division, 235 East 42nd Street, New York, N.Y. 10017, USA.

Food science and technology (120 abstracts) and cheese (150 abstracts).

270 abstracts in EN (no titles of documents are provided, but titles of journals only).

Output arranged by numerical sequence.

FOOD SCIENCE AND TECHNOLOGY ABSTRACTS**FOOSCTSH**

Journal; 12 x; \$ 260.-, £ 100.-; 1969 –

Magnetic tapes; 12 x; lease \$ 1820.-, £ 700.-

International Food Information Service (IFIS), Shinfield, Reading, UK and Frankfurt/M., Herriotstrasse, F.R. Germany.

Published by Commonwealth Agricultural Bureaux, Farnham Royal, Slough SL2 3BN, UK.

Food science and technology.

14.800 abstracts in EN. Titles in EN, German titles also in GE. Author addresses.

Output arranged by subject (own classification).

Subject index (modified KWOC, 6 keywords) and author index, each issue and annually. Controlled vocabulary.

Input source: 1.200 primary journals.

Cumulative data base: 42.000 references. Computerized.

Additional services: SDI, retrospective retrieval, full-size copies, library loans, translations from major languages into EN.

FORESTRY ABSTRACTS**FORABSOX**

Journal; 4x ; £ 16,- in CAB-associated countries, £40,- elsewhere; 1939 -

Card service (title citations only); £ 18,- in CAB-associated countries; £ 31,- elsewhere (also available in subject sections and on airmail paper).

Commonwealth Forestry Bureau, Commonwealth Forestry Institute, South Parks Road, Oxford OX1 3RD, UK. Unit of Commonwealth Agricultural Bureaux, Farnham Royal, Slough SL2 3BN, UK.

Published by Commonwealth Agricultural Bureaux, Farnham Royal, Slough SL2 3BN, UK.

Forestry, covering factors of the environment, biology, silviculture, work science, harvesting of wood, logging and transport, forest engineering, forest injuries and protection, mensuration, increment, development and structure of stands, surveying and mapping, management, business economics, administration, marketing of forest products, economics of forest transport and wood industries, forest products and utilization, social economics of forestry.

7.900 references produced, 6.850 abstracts in EN and 450 title citations published. Titles in EN and partly in original language.

Output arranged by subject (ODC).

Subject index (alphabetical; 4 keywords) and geographical index, annually. Author index, each issue and annually.

Subject index arranged by scientific names, woody species and by diseases and invertebrate pests. Controlled vocabulary.

Input source: 1.100 primary journals, 5% from secondary sources.

Cumulative data base: 150.000 references. Computerized 1973.

Additional services: retrospective retrieval, full-size and microcopies.

FOREST FIRE CONTROL ABSTRACTS**FORFICOT**

Journal; 4 x; free; 1950 -

Forest Fire Research Institute, Canadian Forestry Service, Department of Environment, Ottawa K1A 0H3, Canada.

Forest fire control, including detection, prevention, pre-suppression, suppression and weather aspects.

180 abstracts in EN. Titles in original language and EN.

Output arranged by subject (own classification).

Subject index (3 keywords), each issue and 2-yearly. Controlled vocabulary.

Input source: primary literature (mostly English language).

Additional services: retrospective retrieval.

**FORSKNINGS OCH FORSOKSMEDDELANDEN FRÅN INSTITUTIONER PÅ JORDBRUKETS,
TRÅDGARDSODLINGENS, SKOGEN M. FL. OMRÅDEN** **FORFOIST**
(LIST OF PUBLICATIONS OF SWEDISH RESEARCH INSTITUTIONS IN AGRICULTURE, HORTICULTURE,
FORESTRY AND RELATED FIELDS)*Section of Kungl. Skogs- och Lantbruksakademiens Tidskrift (Journal of the Royal Swedish Academy of Agriculture and Forestry)*

Journal; 1 x; Sw.K. 30,-; 1957 -

Kungl Skogs- och Lantbruksakademien (The Royal Swedish Academy of Agriculture and Forestry), Drottninggatan 95 B, Box 6806, S-11386 Stockholm, Sweden.

Agriculture in general, horticulture, forestry and fisheries.

1.550 title citations. Titles in SS, EN, GE or FR. Author addresses.

Output arranged by research institute and author.

Author index from 1972.

Input source: primary literature (Sweden only).

Cumulative data base: 15.800 references.

Additional services: full-size copies, library loans.

FORSKNINGSINSTITUTTET FOR HANDELS- OG INDUSTRIPLANTER.**FORHAIKO**

- 1) MEDDELELSER FRA GRØNMELSAFDELINGEN (1960),
- 2) MEDDELELSER FRA KARTOFFELAFDELINGEN (1963),
- 3) MEDDELELSER FRA HALMAFDELINGEN (1965),
- 4) MEDDELELSER FRA KORN- OG FODERSTOFAFDELINGEN (1968).

(RESEARCH INSTITUTE FOR COMMERCIAL AND INDUSTRIAL PLANTS.

- 1) REPORTS FROM THE GREEN MEAL DEPARTMENT (1960),
- 2) REPORTS FROM THE POTATO DEPARTMENT (1963),
- 3) REPORTS FROM THE STRAW DEPARTMENT (1965),
- 4) REPORTS FROM THE GRAIN AND FEEDSTUFFS DEPARTMENT).

Journal; 4 x; DKr 100-300 per year.

Forskningsinstituttet for Handels- og Industriplanter, Holbergsvej 10, 6000 Kolding, Denmark.

Processing of agricultural plant products (fodders, potatoes, straw); chemical composition; analytical methods and techniques; technical installations and plants, nutritive value of feeds.

170 abstracts in DA and 230 title citations. Titles in original language.

Output arranged by subject (own classification) and by author.

Input source: 50 primary journals, 10% from secondary sources.

Cumulative data base: 2.000 references.

Additional services: full-size copies, information service.

FORSTLICHE UMSCHAU
(FORESTRY REVIEW)

FORUMSFR

Journal; 4 x; DM 1.420.-; 1958-1959 -

Editor: Prof. Dr. Mautel, Berteldstrasse 17, Freiburg i. Br., F.R.Germany.
Published by Verlag Paul Parey, 2 Hamburg 1, F.R.Germany.

Wood production and wood technology.

500 abstracts in GE). Titles in original language.

Output arranged by subject (ODC).

Subject index (alphabetical, 3 keywords) and author index, each issue and annually. Controlled vocabulary.

Input source: 40 primary journals.

Additional services: full-size copies, library loans.

) The number of abstracts in 1971 was exceptionally low; in 1970 and 1972 ca. 1.000 abstracts were published annually.

FRAMMANDE KALLOR OCH ACCESSIONSLISTA
(FOREIGN SOURCES AND ACCESSIONS LISTS)

FRAKALLU

Mimeographed journal; 4 x; free; 1960 -

Lantbrukshögskolan, Institutionen för lantbrukets byggnadsteknik, Box 624, 220 06 Lund, Sweden.

Farm buildings: construction, economics and environment.

865 title citations. Titles in original language.

Input source: 500 primary journals, 25% from secondary sources.

Cumulative data base: 8.000 references.

Additional services: full-size copies, library loans.

FRUITS (FRUITS D'OUTRE-MER) - DOCUMENTATION ANALYTIQUE ET INDEX
MATIERES

FRUOUMPA

(FRUITS - OVERSEAS FRUITS ANALYTICAL DOCUMENTATION AND SUBJECT INDEX)

Journal; 12 x; FF 250,- in France, FF 270,- elsewhere; 1943 -

Institut Français de Recherches Fruitières Outre-Mer (IFAC), 6 Rue du Général Clergerie, 75 Paris 16e, France.

Tropical and subtropical fruits (plant production and protection; beverages and other products); temperate fruits (beverages and other products).

3.500 abstracts in FR. Titles in FR.

Output by titles of primary journals.

Subject index (alphabetical, 6 keywords) and geographical index, each issue, annually and 5-yearly; author index, each issue. Controlled vocabulary. .

Input source: 300 primary journals; 25% from secondary sources.

Cumulative data base: 76.000 references. Computerized.

Additional services: retrospective retrieval, full-size copies and microcopies.

GENETICS ABSTRACTS**GENABSLO**

Journal; 12 x; £ 46,67 in UK, \$ 175,- elsewhere; 1968 –

Information Retrieval Limited, 1 Falconberg Court, London W1V 5FG, UK.

Genetics and breeding of plants and animals.

3.300 abstracts in EN. Titles in original language and EN. Author addresses.

Output arranged by subject (own classification).

Subject index (alphabetical, 4-5 keywords) and author index, each issue and annually. Controlled vocabulary.

Input source: 3.000 primary journals.

GEOGRAPHICAL ABSTRACTS**GEOABSNO**

Section A: Geomorphology, Section B: Biogeography and Climatology.

Section C: Economic Geography, Section D: Social Geography and Cartography.

Journal; 6 x; £ 3,- per part.; 1966 -

GEO Abstracts, University of East Anglia, Norwich, NOR 88C, UK.

Agriculture from view of economic geography, biogeography and ecology.

Section B deals with plant ecology, conservation, pollution, forestry, economic biogeography, hydrology and water resources, oceanography and pedology, etc. Section C deals with aquiculture, forestry, fishing, land use, environmental issues and water, etc.

11.650 abstracts of AGRIS interest in EN. Titles in original language and EN.

Output arranged by subject (own classification).

Subject index (KWOC, 7 keywords) and author index annually. 5-yearly cumulation; geographical index annually.

Input source: 1.400 primary journals, 30% from secondary sources.

Index compilation computerized.

GRASAS Y ACEITES**GRAACESE****(FATS AND OILS)**

Journal; 6 x; Ptas 500,- in Spain, Ptas 600,-elsewhere; 1950 –

Instituto de la Grasa y sus Derivados, Avda. P. Garcia Tejero, 4. Sevilla, Spain.

Oilseeds, pests, animal nutrition, microbiology, hygiene, fabrication and conditioning of food, fruit products, edible olives, fats, oils and margarines, food additives, environmental sciences.

550 abstracts in ES, FR, EN or GE. Titles in original language and ES, EN, FR or GE.

Output arranged by subject (own classification), by author and document titles.

Subject index (alphabetical, 6 keywords) and author index, annually.

Controlled vocabulary.

Input source: 215 primary journals, 15% from secondary sources.

Additional services: SDI, full-size copies, microcopies, translations.

HAUSWIRTSCHAFT UND WISSENSCHAFT. AKTUELLE LITERATURÜBERSICHT **HAUWISST**
Eine Auswahl des Schrifttums aus der Dokumentationsstelle der Bundesforschungsanstalt für Hauswirtschaft.
(DOMESTIC ECONOMY AND SCIENCE. SECTION. CURRENT LITERATURE REVIEW.
A selection of the publications at the Documentation Centre of the Federal Research Institute for Domestic Economy)

Journal; 6 x; DM 31,65; 1963 -

Bundesforschungsanstalt für Hauswirtschaft, Bibliothek und Dokumentation, D-7 Stuttgart-Hohenheim, Garbenstrasse 13, F.R. Germany

Published by Verlag Karl M. Lipp, D-8 München 21, Lautensackstr. 2, F.R. Germany.

Home economics

1.200 references produced, 175 abstracts in GE published. Titles in original language and GE.

Output arranged by subject (own classification).

Input source: 170 EN, FR, GE, NO and SS primary journals.

Cumulative data base: 9.500 references.

Additional services: retrospective retrieval, full-size copies.

HEALTH ASPECTS OF PESTICIDES ABSTRACT BULLETIN **HEAASPCB**

Journal; 12 x; \$ 6.50 in the USA, \$ 8.25 elsewhere; 1968 -

Division of Pesticide Community Studies, Office of Pesticides Programs, Environmental Protection Agency, 4770 Buford Highway, Chamblee, Georgia 30341, USA.

Pesticides: monitoring; residues; epidemiology; prevention and treatment of toxic effects; toxicology and pharmacology.

2.800 abstracts in EN. Titles in original language and EN. Author addresses.

Output arranged by subject (own classification) and titles of primary journals.

Subject index (1) by compound and (2) by concept - hierarchical system (alphabetical, 8 keywords) and author index, 3-monthly and annually.

Input source: 1.150 primary journals.

Cumulative data base: 28.000 references.

Additional services: retrospective retrieval, full-size and microcopies.

HELMINTHOLOGICAL ABSTRACTS. SERIES A. ANIMAL AND HUMAN HELMINTHOLOGY **HELABASA**

Journal; 4 x; £ 10,- in CAB-associated countries, £ 25,- elsewhere; 1929 -

Commonwealth Institute of Helminthology, 103 St. Peters Street, St. Albans, Herts. UK. Unit of Commonwealth Agricultural Bureaux, Farnham Royal, Slough SL2 3BN, UK.

Published by Commonwealth Agricultural Bureaux, Farnham Royal, Slough SL2 3BN, UK.

Helminth parasites of man and animals; biology and control of vectors (limited coverage); leeches.

4.100 abstracts in EN and 1.200 title citations. Titles in original language, and EN. Author addresses.

Output arranged by subject (own classification) and author.

Subject index (alphabetical, 7 keywords) and author index, each issue and annually.

Input source: 1500 primary journals, 5% from secondary sources.

Computerized 1973.

Additional services: retrospective retrieval, annotated bibliographies, full-size copies, library loans.

HELMINTHOLOGICAL ABSTRACTS. SERIES B. PLANT NEMATOLOGY**HELABBSA**

Journal; 4 x; £ 4,- in CAB-associated countries, £ 10,- elsewhere 1929 -

Commonwealth Institute of Helminthology, 103 St. Peters Street, St. Albans, Herts., UK. Unit of Commonwealth Agricultural Bureaux, Farnham Royal, Slough SL2 3BN, UK.

Published by Commonwealth Agricultural Bureaux, Farnham Royal, Slough SL2 3BN, UK.

Free-living plant and insect nematodes.

900 abstracts in EN and 170 title citations. Titles in original language and EN.

Output arranged by subject (own classification) and author.

Subject index (alphabetical, 7 keywords) and author index, each issue and annually.

Input source: 1.500 primary journals, 5% from secondary sources.

Computerized 1973.

Additional services: retrospective retrieval, annotated bibliographies, full-size copies, library loans.

**HELSINGIN YLIOPISTON MAATALOVS KIRJASTO:
AIKAKAUSLEHTIARTIKKELIEN HAKEMISTRO
(HELSINKI UNIVERSITY LIBRARY OF AGRICULTURE.
LIST OF ARTICLES PUBLISHED IN PERIODICALS).****HELYLMHE**

Card service; 4 x; Fmk 25.-; 1950-

Helsinki University Library of Agriculture, F-00710 Helsinki 71, Finland.

Agriculture in general.

1.700 title citations. Titles in FI.

Output arranged by subject (own classification).

Input source: primary literature (Finland only).

Additional services: retrospective retrieval, full-size copies library loans.

HERBAGE ABSTRACTS**HERABSHU**

Journal; 4 x; £ 8,-; in CAB-associated countries, £ 20,-; elsewhere; 1931-

Commonwealth Bureau of Pastures and Field Crops, Hurley, Maidenhead, Berks. SL6 5LR, UK. Unit of Commonwealth Agricultural Bureaux, Farnham Royal, Slough SL2 3BN, UK.

Published by Commonwealth Agricultural Bureaux, Farnham Royal, Slough SL2 3BN, UK.

Agronomy, utilization, composition and nutritive value and biology of temperate and tropical herbage and fodder plants, grasslands, rangelands and browse plants.

3.200 abstracts in EN. Titles in EN. Author addresses.

Output arranged by subject (own classification).

Subject index (alphabetical, 7 keywords), annually. Author index, each issue and annually.

Input source: 1.200 primary journals, 8 % from secondary sources.

Cumulative data base: 74.000 references. Computerized 1973.

Additional services: retrospective retrieval, annotated bibliographies, full-size copies, library loans.

**HINWEISE AUF VERÖFFENTLICHUNGEN FÜR DIE GEBIETE ÖFFENTLICHES GRÜN
GARTEN UND LANDSCHAFTSBAU**

HINVEGGE

(REFERENCES TO PUBLICATIONS ON PUBLIC GREENS, PARKS, GARDENS AND LANDSCAPING)

Card services; irregularly; free; 1959 -

Institut für Gartenarchitektur und Landschaftspflege der Hessischen Forschungsanstalt für Wein-, Obst- und Gartenbau, 6222 Geisenheim, Schloss Monrepos, F.R. Germany.

Public greens, parks, gardens and landscaping.

300 title citations. Titles in GE.

Output arranged by subject (own classification).

Input source: 66 primary journals (Germany only).

Cumulative data base: 10.700 references.

Additional services: library loans.

HORTICULTURAL ABSTRACTS

HORABSKE

Journal; 4x; £14,-; in CAB-associated countries, £35,- elsewhere; 1931 -

*Commonwealth Bureau of Horticulture and Plantation Crops, East Malling Research Station, Nr. Maidstone, Kent, UK.
Unit of Commonwealth Agricultural Bureaux, Farnham Royal, Slough SL2 3BN, UK.*

Published by Commonwealth Agricultural Bureaux, Farnham Royal, Slough SL2 3BN, UK.

Temperate and tropical fruits and nuts, vegetables, perennial fibre, oilseed and sugar crops, stimulant and medicinal crops, other industrial crops, ornamentals.

10.100 abstracts in EN. Titles in original language and EN. Author addresses.

Output arranged by subject (own classification).

Subject index (alphabetical, 7 keywords) annually and 5-yearly.

Author index, each issue, annually.

Input source: 1.200 primary journals, 5% from secondary sources.

Computerized 1973

Additional services: retrospective retrieval, annotated bibliographies, full-size copies, library loans.

HORTICULTURAL ECONOMICS NEWSLETTER

HORECNHA

Journal; 2 x; 1969 -

Commission for Horticultural Economics of the International Society for Horticultural Science (ISHS), Conradkade 175, The Hague, The Netherlands.

Horticultural economics and horticultural products.

160 abstracts in EN or FR. Titles in original language and EN or FR. Author addresses.

Output arranged by country.

Geographical index, each issue.

Input source; primary literature.

HUNGARIAN AGRICULTURAL REVIEW (1952)
UNGARISCHE AGRARRUNDSCHAU (1957)
VESTNIK VENGERSKOJ SELSKOCHOZJAJSTVENNOJ LITERATURY (1952)

HUNAGRBU

Journal; 4 x.

Mezőgazdasági és Élelmiszerügyi Minisztérium Információs Központja (AGROINFORM), Budapest I, Attila ut. 93, Hungary.

Agriculture in general.

500-600 abstracts in EN, GE and RS and 300-400 title citations. Titles in original language and EN, GE and RS.

Output arranged by subject (own classification and UDC).

Author index, each issue.

Input source: 350 primary journals (Hungary only).

Additional services: full-size and microcopies, library loans, translations from HU into EN, GE, RS.

HYDATA

HYDATAUR

Journal; 12 x; \$ 25.-; 1965 –

American Water Resources Association, 206 E University Avenue, Urbana, Illinois, 61801, USA.

Water resources and technology,

Title citations.

Note: Current awareness service publishing copies of the contents pages of primary journals, non-periodical literature and patents.

INFORMATIONSDIENSTKARTEI (IDK) AGRARGESCHICHTE
(INFORMATION CARD INDEX SERVICE FOR AGRARIAN HISTORY)

IDKAGGST

Card service; 6 x; DM 35,- to official organizations in FR Germany, DM 60, to other subscribers; 1964 –

Dokumentationsstelle der Universität Hohenheim, D-7 Stuttgart-Hohenheim, Garbenstrasse 15, FR Germany.

History of agriculture and forestry; agrarian policy and administration; agricultural production and economics; rural sociology, including ethnology and demography.

600 abstracts in GE. Mini abstracts (15 keywords). Titles in EN, FR or GE. Author addresses.

Output arranged by subject and document titles.

Subject index (alphabetical) 2-yearly. Controlled vocabulary.

Input source: 50 primary journals.

Cumulative data base: 3.400 references. Data processing partly manual, mechanized and computerized.

Additional services: retrospective retrieval, full-size copies.

**INFORMATIONSDIENSTKARTEI (IDK) AGRARPOLITIK, LANDWIRTSCHAFTLICHES
MARKTWESEN UND LÄNDLICHE SOZIOLOGIE**

IDKAGLBO

(INFORMATION CARD INDEX SERVICE FOR AGRARIAN POLICY, AGRICULTURAL ECONOMICS AND RURAL SOCIOLOGY)

Card service; 6 x; free; 1967 -

Dokumentationsstelle für Agrarpolitik, landwirtschaftliches Marktwesen und ländliche Soziologie, in der Forschungsgesellschaft für Agrarpolitik und Agrarsoziologie e.V., D-53 Bonn, Nussallee 21, F.R. Germany.

Agricultural policy; marketing and economics; cooperation; legislation, rural sociology; regional planning.

1.000 abstracts in GE. Mini abstracts (15 keywords). Titles in original language and GE. Author addresses.

Output arranged by numerical sequence.

Subject index (alphabetical), geographical and author index, each issue. Controlled vocabulary.

Input source: primary literature (from DL, DT, OE and CH only), 5% from secondary sources.

Cumulative data base: 5.900 references. Partly mechanized.

Additional services: retrospective retrieval.

INFORMATIONSDIENSTKARTEI (IDK) BERATUNG UND AUSBILDUNG

IDKBEAST

(INFORMATION CARD INDEX SERVICE FOR AGRICULTURAL EDUCATION AND EXTENSION)

Card service; 6 x; DM 35,- to official organizations in F.R. Germany, DM 60,- to other subscribers; 1964 -

Dokumentationsstelle der Universität Hohenheim, D-7 Stuttgart-Hohenheim, Garbenstrasse 15, F.R. Germany.

Agricultural education; general and professional pedagogy; training; extension; sociology; psychology; agricultural press and public relations.

500 abstracts in GE. Mini abstracts (15 keywords). Titles in EN, FR or GE. Author addresses.

Output arranged by subject and document titles.

Subject index (alphabetical), 2-yearly. Controlled vocabulary.

Input source: 28 primary journals.

Cumulative data base: 3.500 references. Data processing partly manual, mechanized and computerized.

Additional services: retrospective retrieval, full-size copies.

**INFORMATIONSDIENSTKARTEI (IDK) BODENKUNDE, BODENERHALTUNG
UND PFLANZENERNÄHRUNG**

IDKBOBBR

(INFORMATION CARD INDEX SERVICE FOR SOIL SCIENCE, SOIL CONSERVATION AND PLANT NUTRITION)

Card service; irregular; DM 20,- to official organizations in F.R. Germany, DM 40,- to other subscribers; 1966 -

Dokumentationsschwerpunkt Bodenkunde, Bodenerhaltung und Pflanzenernährung in der Forschungsanstalt für Landwirtschaft (FAL), D-33 Braunschweig-Völkenrode, Bundesallee 50, F.R. Germany.

Soil science; soil conservation; plant nutrition; some aspects of microbiology.

1000 abstracts in GE plus 800 title citations. Mini abstracts. Titles in original language and GE. Author addresses.

Output arranged by subject, author and numerical sequence.

Controlled vocabulary.

Input source: 100 EN, FR and GE primary journals.

Cumulative data base: 10.200 references.

Additional services: retrospective retrieval.

**INFORMATIONSDIENSTKARTEI (IDK) LEBENSMITTELTECHNOLOGIE
UND VERPACKUNGSTECHNIK**
(INFORMATION CARD INDEX SERVICE FOR FOOD TECHNOLOGY AND PACKAGING)

IDKLEVMU

Card service; available by agreement only; 1957 -

Institut für Lebensmitteltechnologie und Verpackung e.V. an der TU München - Institut der Fraunhofer-Gesellschaft, D-8 München 50, Schragenhofstr. 35, F.R. Germany.

Food technology, storage, packing, transport, quality assessment and control, microbiology; technology of chocolate, analysis, control and preservation.

1520 abstracts in GE or title citations. Mini abstracts (6-10 keywords). Titles in original language and GE. Author addresses.

Output arranged by subject and author. Controlled vocabulary.

Input source: 80 primary journals, 50% from secondary sources.

Cumulative data base: 60.000 references.

Additional services: full-size copies.

INFORMATIONSDIENSTKARTEI (IDK) TIERISCHE PRODUKTION

IDKTIPST

(Subseries: INFORMATIONSDIENSTKARTEI SELEKTIERT (IDK-S) KLEINTIERKUNDE. TIERERNAHRUNG UND FUTTERMITTELKUNDE, TIERZÜCHTUNG UND TIERHALTUNG
(INFORMATION CARD INDEX SERVICE FOR ANIMAL PRODUCTION.

Subseries: SELECTIVE CARD INDEX SERVICE SMALL ANIMAL INFORMATION, ANIMAL NUTRITION AND FEED STUFFS INFORMATION, ANIMAL BREEDING AND ANIMAL HUSBANDRY).

Card service; 24 x; DM 155,- to official organizations in F.R. Germany; DM 385,- to other subscribers; 1963 -; Subseries 1969 -

Dokumentationsstelle der Universität Hohenheim, D-7 Stuttgart-Hohenheim, Garbenstrasse 15, F.R. Germany.

Animal nutrition and foods; animal breeding and husbandry; small animals.

5.000 abstracts in GE. Mini abstracts (20 keywords). Titles in EN or GE. Author addresses.

Output arranged by subject, author and numerical sequence.

Subject index (alphabetical). Controlled vocabulary.

Input source: 220 primary journals, 11% from secondary sources.

Cumulative data base: 36.500 references. Data processing partly manual, mechanized and computerized.

Additional services: SDI, retrospective retrieval, full-size copies. Special services: 1) BEFUNDOKUMENTATION FUTTERMITTEL. Cumulative data base: 500.000 analytical data. Computerized. 2) BIBLIOGRAPHIE 'DATEN UND DOKUMENTE ZUM UMWELTSCHUTZ'.

INDICE AGRICOLA COLOMBIANO
(AGRICULTURAL INDEX OF COLOMBIA)

INDAGCME

Printed bibliography; irregular; free; 1965-

Escuela Interamericana de Bibliotecologia, Apartado Aereo 1307, Medellin, Colombia.

Agriculture in general.

Title citations. Titles in SP.

Output arranged by subject (own classification).

Subject index (alphabetical, 4 keywords).

Input source: primary literature (Colombia only).

Cumulative data base: 8.500 references.

Additional services: microcopies, library loans.

INDIAN AGRICULTURAL INDEX**INDAGIPA**

Mimeographed Journal; 12 x; for sale; 1969 –

University Library, G.B. Pant University of Agriculture and Technology, Pantnagar 263145, Nainital, India.

Agriculture in general.

5.000 title citations. Titles in original language and EN.

Arranged by subject (modified Dewey Decimal).

Subject index (KWIC, plus subject in context) and author index, each issue.

Input source: 116 EN and HI primary journals (India only).

Cumulative data base: 10.800 references.

Additional services: full-size copies.

1) INDONESIAN BIOLOGICAL AND AGRICULTURAL INDEX *)**INDBIABO****2) INDEX OF ARTICLES IN THE FIELD AND AGRICULTURAL ECONOMY IN INDONESIA AND RELATED SUBJECTS OF IMPORTANCE FOR THE AGRO-ECONOMIC SURVEY****3) BIBLIOGRAPHIC SERIES****4) ANNOTATED INDEX OF ARTICLES IN THE FIELD OF BIOLOGY AND AGRICULTURE****5) PRESS CLIPPING DOCUMENTATION ON BIOLOGY AND AGRICULTURE IN INDONESIA**

Journal; 6 x; for sale; 1) 1969, 2) 1965, 3) 1967, 4) 1965, 5) 1969 -

Lembaga Perpustakaan Biologi dan Pertanian (Bibliotecca Dogoziensis), Jl Ir. H. Juanda 20, Bogor, Indonesia

3.770 title citations of AGRIS interest. Titles in original language.

Output arranged by subject (UDC).

Subject index (alphabetical) and author index, each issue. Controlled vocabulary.

Input source: 200 primary journals.

Additional services: SDI, retrospective retrieval, full-size copies, library loans.

*) Arrived after deadline, not included in statistical calculations.

**INDICE BIBLIOGRAFICO AGRICOLA DE VENEZUELA.
(VENEZUELAN AGRICULTURAL INDEX)****INDBIAMA**

Printed bibliography; irregular; free; 1955 -

Fundación Eugenio Mendoza, Maracay, Venezuela.

Agriculture in general.

Title citations. Titles in original language.

Output arranged by subject (own classification).

Subject index (alphabetical, 3 keywords) and author index, each issue.

Input source: 214 primary journals (Venezuela only).

Cumulative data base: 20.600 references.

**INDICE BIBLIOGRAFICO
(BIBLIOGRAPHIC INDEX)**

INDBIBMA

Journal; Card service; irregular; free.

Instituto Nacional de Investigaciones Agrarias, Avda de Puerta de Hierro s/n., Madrid-3, Spain.

Veterinary medicine, animal husbandry, animal nutrition, biochemistry and biology.

5.300 title citations. Titles in original language.

Output arranged by subject (own classification).

Input source: primary literature.

Additional services: SDI, full-size copies, library loans.

**INDEX BIBLIOGRAPHIQUE
(BIBLIOGRAPHIC INDEX)**

INDBIBTO

Journal; 12x, mainly for internal use; free; 1970–

Bibliothèque, Ecole Nationale Vétérinaire, Chemin des Capelles, 31076, Toulouse Cedex, France.

Veterinary and human medicine; animal breeding; hygiene and inspection of animal food; biological and medical sciences.

12.500 title citations. Titles in original language and FR.

Output arranged by subject (own classification).

Input source; 220 primary journals.

Additional services; full-size copies, library loans.

**INDICE LATINOAMERICANO DE TESIS AGRICOLAS
(LATIN AMERICAN INDEX OF AGRICULTURAL THESES)**

INDLATTU

Computer print-out; irregular; free; 1972 –

Centro Interamericano de Documentación e Información Agrícola (IICA-CIDIA), Turrialba, Costa Rica.

Agriculture in general.

Title citations. Titles in SP and PT.

Subject index (KWIC, 3 keywords) and author indexes.

Input source: Latinamerican dissertations (SP and PT).

Cumulative data base: 7.250 references. Computerized.

Additional services: retrospective retrieval, full-size copies, library loans.

INDEX MEDICUS**INDMEDBZ**

Journal; 12 x; \$ 113.- in the USA, \$ 141,25 elsewhere; Cumulated Index Medicus (annually); \$ 84.- in the USA, \$ 92.25 elsewhere; 1960 –

Computer print-out and magnetic tapes.

The National Library of Medicine, 8600 Rockville Pike, Bethesda, Maryland 20014, USA.

Veterinary medicine; animal and plant science insofar as they pertain to medicine.

14.700 title citations of AGRIS interest. Mini abstracts. Titles in original language and EN.

Output arranged by subject (own classification) and author.

Subject index (alphabetical) and author index, each issue and annually. Controlled vocabulary.

Input source: 2200 primary journals.

Computerized.

Additional services: SDI, retrospective retrieval.

**INDEX RETROSPECTIF
(RETROSPECTIVE INDEX)****INDRETRA**

Computer print-out; irregular; Dh 30.– per issue; 1969 –

Centre National de Documentation, Boite postale 826, Rabat, Morocco.

Agriculture in general.

4.880 abstracts in FR. Titles in FR.

Output arranged by accession number.

Subject index (KWIC, 10 keywords), geographical and author indexes.

Controlled vocabulary.

Input source: Morocco only.

Cumulative data base: 10.450 references. Computerized.

Additional services: full-size copies and microfiches, library loans.

INDIAN SCIENCE ABSTRACTS**INDSCADE**

Journal; 12 x; Rupees 50,- in India, \$ 30,- elsewhere.

Indian National Scientific Documentation Centre, Delhi-12, India.

Agriculture in general.

4000 abstracts of AGRIS interest in EN (1970 figures). Titles in EN.

Output arranged by subject (own classification).

Subject index (alphabetical) and author index, each issue and annually.

Input source: primary literature (India only).

INDEX VETERINARIUS**INDVETWE**

Journal; 4 x (12 x, from 1972); £ 18 – in CAB-associated countries, £ 45,- elsewhere; 1933 –

Commonwealth Bureau of Animal Health, Central Veterinary Laboratory, New Haw, Weybridge, Surrey. Unit of Commonwealth Agricultural Bureaux, Farnham Royal, Slough SL2 3BN, UK.

Published by Commonwealth Agricultural Bureaux, Farnham Royal, Slough SL2 3BN, UK.

Veterinary medicine plus closely related fields of other biological sciences including microbiology, general parasitology, general pathology, human medicine, zoonoses, biochemistry.

16.000 title citations. Titles in EN (from 1972 in original language and EN).

Output arranged by subject (own classification) and author.

Input source: 828 primary journals.

Computerized 1972.

Additional services: SDI, retrospective retrieval, annotated bibliographies, full-size copies, library loans, translations into EN.

INFORME EPIDEMIOLOGICO SOBRE FIEBRE AFTOSA Y ESTOMATITIS VESICULAR**INFEPSRI****(EPIDEMIOLOGICAL INFORMATION ON FOOT AND MOUTH DISEASE AND VESICULAR STOMATITIS)**

Loose leaves; 4 x; free; 1970 –

Centro Panamericano de Fiebre Aftosa, Caixa Postal 589-ZC-00, 20.000 Rio de Janeiro-GB, Brazil.

Foot and mouth diseases including epidemiology, biochemistry, veterinary medicine and biostatistics.

250 abstracts in EN and SP. Titles in original language, EN and FR.

Output arranged by author.

Input source: 177 primary journals, 30% from secondary sources.

Additional services: SDI, full-size copies.

INFORMATIONSDIENST GARTENBAU**INFGARHA****(HORTICULTURAL INFORMATION SERVICE)**

Card service; 24 x; DM 100,- to official organizations in F.R. Germany, DM 140,- to other subscribers; 1967 -

Fachdokumentationsstelle Gartenbau an der Fakultät für Gartenbau und Landeskultur der TH Hannover, D-3000 Hannover, Herrenhäuser Str. 2, F.R. Germany.

Horticulture, including trees, shrubs, vegetables, fruits, ornamentals.

4.100 references produced, 2.800 abstracts in GE published. Titles in original language and GE. Author addresses.

Output arranged by document titles.

Subject index (alphabetical, 10 keywords) and taxonomic index, each issue. Controlled vocabulary.

Input source: 220 primary journals, 10% from secondary sources.

Cumulative data base: 20.000 references.

Additional services: retrospective retrieval, full-size copies.

INFORMATIONSDIENST GETREIDEVERARBEITUNG
(INFORMATION SERVICE FOR CEREAL PROCESSING)

INFGETDE

Card service; 24 x; DM 175,-; 1946 -

The title citation collection of 60.000 items covering 1939-45 was lost. The Service resumed operations in 1946 and since 1967 has provided a systematic coverage of the literature.

Dokumentationsstelle der Bundesforschungsanstalt für Getreideverarbeitung, D-493 Detmold 1, Schützenberg 12, Postfach 23, F.R. Germany.

Processing of cereal grains, including milling and baking technology, starch chemistry and technology, microbiology, radiology, nutritional aspects, marketing, legislation.

2.300 abstracts in GE and title citations. Titles in original language and GE.

Output arranged by subject, author and numerical sequence.

Input source: 250 primary journals, 15% from secondary sources.

Cumulative data base: 15.800 references. Input mechanized.

Additional services: retrospective retrieval, full-size copies.

INFORMATIONSDIENST UBER GRUNLAND UND FELDFUTTER
(INFORMATION SERVICE FOR GRASSLAND AND FODDER CROPS)

INFGRFFR

Card service; 12 x; DM 35,- per 1.000 cards; 1967 -

Dokumentationsstelle für Grünlandwirtschaft und Futterbau, D-805 Freising-Weihenstephan, F.R. Germany.

Grasslands, fodder crops, silage.

960 abstracts in GE and 200 title citations. Mini abstracts (10-20 keywords). Titles in original language and GE. Author addresses.

Output arranged by subject.

Subject index (alphabetical) and author index, annually. Controlled vocabulary.

Input source: 200 primary journals (from countries in temperate climates only).

Cumulative data base: 4.250 references. Input mechanized.

Additional services: retrospective retrieval.

INFORMATIONSDIENST VERPACKUNG
mit Dokumentationsdienst

INFVERBE

(PACKAGING INFORMATION SERVICE - with Documentation Service)

Journal; 12 x; DM 65,-; 1954 -

Card service; Manually sorted punched cards.

RKW Zweigstelle Berlin, D-1 Berlin 30, Rankestrasse 5-6, F.R. Germany.

Food packaging.

2.300 abstracts in GE plus 2.000 title citations. Mini abstracts (4 keywords). Titles in original languages and GE. Author addresses.

Output arranged by subject (own classification).

Controlled vocabulary.

Input source: 300 primary journals, 40% from secondary sources.

Partly mechanized.

Additional services: SDI, full-size copies, library loans, translations from EN, FR, PO, RS, SP, SR into GE.

INFORMATIONSDIENST VETERINÄRMEDIZIN
(INFORMATION SERVICE FOR VETERINARY MEDICINE)

INFVETHA

Journal; 4;6 x; DM 60,-; 1972 -

Abteilung für Dokumentation im Institut für Statistik und Biometrie der Tierärztlichen Hochschule Hannover, D-3 Hannover, Bischofsholer Damm 15, and Abteilung für Versicherungs-Veterinärmedizin, Statistik und Dokumentation der Freien Universität Berlin, Fachbereich Veterinärmedizin, D-1 Berlin 33, Correnplatz 2, F.R. Germany.

Veterinary medicine.

2.500 title citations a year envisaged. Titles in original language and GE. Author addresses.

Output arranged by subject (own classification) and author.

Subject index (modified KWIC, 7 keywords), geographical, taxonomic, proper name, patent medicine and author indexes, each issue and annually. Controlled vocabulary.

Input source: 75 GE primary journals.

Mechanized and computerized.

Additional services envisaged: SDI, retrospective retrieval, full-size copies.

INFORMATIONSDIENST WEIHENSTEPHAN
(WEIHENSTEPHAN INFORMATION SERVICE)

INFWEIFR

Formerly (1958-1972) Obst- und Gartenbaubücher Beratungs- und Informationsdienst Weihenstephan.

Loose-leaf pages; 12 x; DM 16,80; 1958 -

Fachhochschule Weihenstephan, Fachbereiche Gartenbau/Lebensmitteltechnologie und Landespflege, D-8050 Freising-Weihenstephan, F.R. Germany.

Published by Obst- und Gartenbauverlag, D-8000 München 15, Postfach 105, F.R. Germany.

Horticulture; landscape gardening; food technology.

650 abstracts in GE. Titles in GE.

Output arranged by subject (own classification).

Subject index (alphabetical) and author index, annually.

Input source: 90 primary journals (EN, GE and NL mostly).

INSTITUT FÜR ZUCKERRUBENFORSCHUNG
(INSTITUTE FOR SUGAR BEET RESEARCH)

INSZUCGO

In-house data base in card form.

Institut für Zuckerrübenforschung, D-3400 Göttingen, Holtuser Landstrasse 77, F.R. Germany.

Cultivation of sugar beet and related aspects.

800 - 1000 title citations. Mini abstracts. Titles in original language and GE.

Services: retrospective retrieval.

INTERNATIONAL ABSTRACTS OF BIOLOGICAL SCIENCES**INTABBOX**

Journal; 12 x; £ 115.-, £ 100.- to university and hospital libraries; 1954 –

Robert Maxwell Ltd., Headington Hill Hall, Oxford OX3 0B5, UK.

Biological sciences, including anatomy, biochemistry, pharmacology, immunology, experimental zoology, plant sciences, cytology, genetics, animal behaviour.

40.000 abstracts produced, in part of AGRIS interest. Abstracts in EN. Titles in EN. Author addresses.

Output arranged by subject (own classification).

Subject index (alphabetical), taxonomic index (separately for bacteria, plants and animals) and author index, each issue.

Input source: 450 primary journals.

INTERNATIONAL BIBLIOGRAPHY OF RICE RESEARCH**INTBIRMA**

Journal; 1 x; P. 15,-; 1963 –

The International Rice Research Institute, P.O. Box 583, Manila, Philippines.

Rice.

2.750 title citations. Titles in original language and EN.

Output arranged by subject (own classification).

Subject index (KWIC for the annual supplement; alphabetical, 3 keywords, for cumulation) and author index, each issue and 5-yearly.

Geographical index, 5-yearly.

Input source: 920 primary journals, 10% from secondary sources.

Cumulative data base: 31.000 references.

Additional services: retrospective retrieval, full-size copies.

INTERNAL BULLETIN ON DOCUMENTATION. BULLETIN INTERNE DE RENSEIGNEMENT DOCUMENTAIRE. INTERNES DOKUMENTATIONSBULLETIN. BOLLETTINO INTERNO DI INFORMAZIONE DOCUMENTARIA. INTER DOCUMENTATIE BULLETIN. INTERNT OPLYSNINGSBLAD OM DOKUMENTATION**INTBUDDR**

Journal and card service; 54 x; free; 1973 -

Commission of the European Communities, Division IX/C/3, Central Archives and Documentation Service, 200 Rue de la Loi, Bruxelles, Belgium.

All aspects of the European Communities, including agricultural policy and economics.

12.000 abstracts in EN, FR, GE, IT, DA or NE, or title citations, 750 of AGRIS interest. Titles in original language.

Output arranged by subject (UDC).

Input source: 400 primary journals.

Additional services; full-size copies and microcopies, library loans.

**INTERNATIONALE DOKUMENTATION DER ERNÄHRUNGSWIRTSCHAFT UND
-WISSENSCHAFT (IDEE)**

INTDOEWI

(INTERNATIONAL DOCUMENTATION ON NUTRITION TECHNOLOGY AND SCIENCE)

Journal; Card service; 12 x; 1954 -

Osterreichische Gesellschaft für Ernährungsforschung, Abteilung Dokumentation und Information, A-1030 Wien 3, Marxergasse 13/4, Austria.

Published by Die Industrie Zeitschriftenverlags-Ges. m.b.H., Nachf.: Kommerzialrat Walter Müller, A-1030 Wien, Am Heumarkt 12, Austria.

Food science and technology; human nutrition.

7.000 title citations produced, 6.000 published. Mini abstracts. Titles in original language and GE.

Output arranged by subject (own classification).

Input source: 200 primary journals.

Additional services: SDI, full-size copies.

INTERNATIONAL LABOUR DOCUMENTATION

INTLADGE

Journal, computer print-out, card service, magnetic tapes; 24 x; \$ 10/15,- for the card service; 1965 -

International Labour Office; 1211 Geneva 22, Switzerland.

Social and labour problems of rural development, including agrarian reform, wages, peasant movements, cooperatives, etc.

1.000 abstracts of AGRIS interest in EN. Mini abstracts (10 keywords). Titles in original language and EN.

Output arranged by numerical sequence.

Subject index (alphabetical, KWOC) and geographical index, each issue and 2-yearly. Author index, 2-yearly. Controlled vocabulary.

Input source: 1.000 primary journals. Cumulative data base: 46.000 references. Computerized.

Additional services: SDI, retrospective retrieval, full-size and microcopies, library loans.

INTERNATIONAL NUCLEAR INFORMATION SYSTEM (INIS) - INIS ATOMINDEX

INTNUIWI

Journal and magnetic tape; 12 x; \$ 25,- (magnetic tapes free to official organizations in the member States); 1970 -

International Atomic Energy Agency, INIS Section, P.O. Box 590, A-1011 Wien, Austria.

All aspects of irradiation and isotopes in agriculture and food science.

Abstracts in EN, FR, RU or SP. Titles in original language and EN. Author addresses.

Output arranged by subject (own classification) and author.

Author index, each issue and 6-monthly; subject index (10 keywords) envisaged for 1973. Controlled vocabulary.

Input source: 4.300 primary journals in all sciences. Computerized.

Non-conventional documents on microfiches.

INTERNATIONAL SUGAR JOURNAL

INTSUJHI

Journal; 12 x; £ 3,-; 1869 -

The International Sugar Journal Ltd., 23A Easton Street, High Wycombe, Bucks., UK.

Sugar cane and beet agriculture, sugar manufacture and refining, by-product utilization, laboratory analytical studies, economics of sugar production and marketing.

1.450 abstracts in EN. Titles in EN.

Output arranged by subject (own classification).

Subject index (alphabetical, 4 keywords) and author index, annually.

Input source: 75 primary journals.

Additional services: full-size copies.

ISOTOPES RAYONNEMENTS AGRICULTURE

ISORAACA

(RADIOISOTOPES IN AGRICULTURE)

Journal; 12 x; (1963-71); irregular since July 1971; free.

Commissariat à l'Energie Atomique, Département de Biologie, Service de Radioagronomie, Centre d'Etudes Nucléaires de Cadarache, France.

Application of nuclear technology in agriculture.

11.700 abstracts in FR. Mini abstracts (6-8 keywords). Titles in EN or FR. Author addresses.

Output arranged by author.

Subject index (alphabetical and systematic), each issue and annually. Author index. Controlled vocabulary.

Input source: 300 primary journals.

Additional services: retrospective retrieval; translations from Slavonic languages into FR.

INTERNATIONAL VETERINARY REFERENCE SERVICE (IVRS)

IVRS..WH

Loose leaves; 12 x; \$ 66,- per edition; 1960 -

American Veterinary Publications, Inc., P.O. Box 111, Wheaton, Illinois 60 187, USA.

Abstracts in EN. Titles in EN. Author addresses.

Output arranged by subject (own classification).

Subject index (alphabetical, 1 keyword) in each issue and annually.

Input source: 400 primary journals.

Additional services: full size copies.

IVRS. LARGE ANIMALS EDITION

IVRSLAWH

Veterinary medicine and hygiene of large animals.

960 abstracts.

IVRS. SMALL ANIMALS EDITION

IVRSSAWH

Veterinary medicine and hygiene of small animals.
1.100 abstracts.

**IWL - KURZBERICHTE
(IWL - ABSTRACTS)**

IWLKURKO

Journal; 6 x; free; 1962 –

Institut für gewerbliche Wasserwirtschaft und Luftreinhaltung e. V., D-5 Köln 51, Oberländer Ufer 84, F.R. Germany.

Water supply and waste water; air pollution.

360 abstracts in GE. Titles in GE.

Output arranged by numerical sequence.

Input source: primary literature (F.R.Germany only), 2% from secondary sources.

JOURNAL OF THE AMERICAN OIL CHEMISTS' SOCIETY. ABSTRACTS

JOUAMOCH

Journal; 12 x; \$ 30.- in USA, \$ 32.- elsewhere.

American Oil Chemists Society, 508 South Sixth Street, Champaign, Illinois 61820, USA.

Lipids, including fats and oils; fatty-acid derivatives; biochemistry and nutrition; drying oils, paints and detergents.

360 abstracts of AGRIS interest in EN. Titles in EN. Author addresses.

Output arranged by subject (own classification).

Input source: 110 primary journals plus patents, 5% from secondary sources.

JOURNAL OF THE AMERICAN VETERINARY MEDICAL ASSOCIATION

JOUAMVCH

Journal; 1877 –

American Veterinary Medical Association, 600 South Michigan Avenue, Chicago, Illinois 60605, USA.

Veterinary medicine.

165 abstracts in EN, 725 title citations. Titles in EN.

Output arranged in chronological order.

Subject index (alphabetical, 4 keywords) and author index, 6-monthly.

Input source: 40 EN primary journals, 5% from secondary sources.

JOURNAL OF ANIMAL ECOLOGY ABSTRACTS

JOUANE0X

Journal; 3 x; 14.-; \$ 47.- in USA and Canada; 1932 –
Card services; 2 x; \$ 0.27 per card.

British Ecological Society (address varies with the Society Secretaries, who change periodically).

Published by Blackwell Scientific Publications Ltd., 5 Alfred Street, Oxford, UK.

Ecology and related aspects of the British vertebrate and invertebrate fauna.

350 abstracts in EN. Titles in EN.

Output arranged by subject (own classification).

Input source: primary literature (principally UK literature and foreign literature relating to the British fauna).

JOURNAL OF THE INSTITUTE OF BREWING

JOUINBLO

Journal; 6 x; £ 15.-; 1886 -

The Institute of Brewing, 33 Clarges Street, London W1, UK.

Raw materials relevant to brewing (especially malting barley (cultivation, genetics, diseases, physiology of germination) and hops (cultivation, breeding, diseases); analysis and processing of raw materials.

170 abstracts in EN. Titles in original language.

Output arranged by subject (own classification).

Subject index (alphabetical, 3 keywords) and author index, annually and 10-yearly.

Input source: 70 primary journals.

**KALI UND SALZ – LANDWIRTSCHAFTLICHER LITERATURBERICHT
(POTASH AND SALT. AGRICULTURAL LITERATURE REVIEW)**

KALSALHA

Journal; 12 x; free; 1970 –

Kali und Salz AG, Dokumentation, Postfach 3209, D-3 Hannover, F.R. Germany.

Soil science, agricultural chemistry, fertilizer use, the fertilizer industry and animal nutrition mainly in relation to potassium, sodium and magnesium; road salt and its use.

1.130 title citations. Mini abstracts (5 keywords). Titles in EN, FR, GE or SP.

Output arranged by subject (own classification) and author.

Subject index in each issue. Controlled vocabulary.

Input source: 480 primary journals, 30% from secondary sources.

Cumulative data base: 13.300 references.

Additional services: SDI, retrospective retrieval, full-size copies, translations from EN, FR, SP into GE.

KARTEIKARTENDIENST, DOKUMENTATION ERNÄHRUNG
(CARD INDEX SERVICE. NUTRITION DOCUMENTATION)

KARDOEGI

Card service; irregular; 1957 -

Institut für Ernährungswissenschaft I der Justus Liebig-Universität, Dokumentation, D-6300 Giessen, Rudolf-Buchheim-Str. 10, F.R. Germany.

All aspects of food science and human nutrition.

Abstracts in GE. Mini abstracts (12 keywords). Titles in GE.

Controlled vocabulary.

Input source: 100% from secondary literature.

Cumulative data base: more than 200.000 references. Computerized.

Additional services: SDI, retrospective retrieval, full-size copies, punched cards.

KARTENINFORMATIONSDIENST DER LANDWIRTSCHAFTLICHEN BETRIEBS- UND ARBEITSWIRTSCHAFT
(INFORMATION CARD SERVICE FOR AGRICULTURAL MANAGEMENT AND LABOUR)

KARLABFR

Card service; 12 x; DM 20,-; 1964 -

Dokumentationsstelle für Landw. Betriebs- und Arbeitswirtschaft im Institut für Wirtschaftslehre des Landbaues der TU München, D-805 Freising- Weihenstephan, F.R. Germany.

Economics of production and labour; farm management.

600 abstracts in GE. Mini abstracts (10 keywords). Titles in original language and GE. Author addresses.

Output arranged by subject (own classification).

Subject and author index, annually. Controlled vocabulary.

Input source: 110 primary journals.

Cumulative data base: 3.500 references. Data processing partly manual, mechanized and computerized.

Additional services: retrospective retrieval.

KEY TO TURKISH SCIENCE

KEYTUSAN

Published in two series:

I AGRICULTURE, 1968 – (from 1972 also Forestry).

II VETERINARY and ANIMAL SCIENCE, 1969 –

Journal; 2 x; free.

Turkish Scientific and Technical Documentation Centre (TURDOK), Bayındic Sokak 33, Yenisehir-Ankara, Turkey.

Agriculture in general.

4.500 references produced, 550 abstracts in EN and 50 title citations.

Titles in TK and EN.

Output arranged by subject (own classification).

Subject index (alphabetical, 6 keywords) and author index, annually.

Input source: 50 primary journals (Turkey only).

Cumulative data base: 7.000 references.

Additional services: retrospective retrieval, full-size and microcopies, library loans, translations from major languages into TK and vice versa.

**KORTE BERICHTEN OVER DE VOEDINGSBRANCHE
(SHORT REPORTS ON THE FOOD BRANCH)**

KORBEVHA

Journal; 52 x; Dfl. 60.-; 1967 –

Library and Documentation Center of the Economic Information Service (Ministry of Economic Affairs), 151 Bezuidenhoutseweg, The Hague, Netherlands.

Economic aspects of food technology; food industry.

1.500 abstracts in NE. Titles in original language.

Output arranged by subject (own classification).

Input source: about 3.000 primary journals.

Additional services: full-size copies, library loans.

1. CURRENT BIBLIOGRAPHY ON SCIENCE AND TECHNOLOGY
2. CURRENT BIBLIOGRAPHY ON FOREIGN PATENTS.
3. TECHNOLOGICAL INFORMATION JOURNAL.
4. DOCUMENTATION AND INFORMATION SERVICE.
5. KOREAN SCIENTIFIC ABSTRACTS.
6. KOREAN MEDICAL ABSTRACTS.

KORSCTSE

Journals; Card services; Microforms; 6 x, 12 x or 24 x; Won 4.000.-; 1962 –

Korea Scientific and Technological Information Center, I.P.O. Box 1229, Seoul, South Korea.

Agriculture in general.

6.635 title citations. Titles in KO.

Output arranged by subject (own classification).

Input source: 2.160 EN, FR, GE, JA primary journals.

Additional services: retrospective retrieval, full-size and microcopies, translations from EN, GE, FR, JA into KO.

**LANDBOUWKUNDIGE ASPEKTEN VAN DE EUROMARKT
(AGRICULTURAL ASPECTS OF THE COMMON MARKET)**

LANASEWA

Journal; 12 x; Dfl. 20,80; 1951 -

Centrum voor Landbouwpublicaties en Landbouwdocumentatie (PUDOC), Prinses Marijkeweg 19, P.O. Box 4, Wageningen, Netherlands.

Agricultural aspects of the European Common Market (agricultural policy, crops, animal husbandry, food).

1.600 title citations. Titles in original language.

Output arranged by subject (UDC).

Input source: primary literature EEC countries only.

Additional services: full-size copies, library loans, translations.

REFERATEDIENST LANDWIRTSCHAFTLICHES BAUWESEN
(ABSTRACT SERVICE FOR AGRICULTURAL BUILDING)

LANBAUBR

Card service; printed title bibliographies; irregular; DM 3,- per issue; 1970 -

Fachdokumentationsstelle für Landtechnik in der Forschungsanstalt für Landwirtschaft, D-33 Braunschweig-Völkenrode, Bundesallee 50, F.R. Germany.

Farm buildings, including houses and stables; equipment; glasshouses; building technique; materials; protection of buildings; regional, village and traffic planning; water supply; environmental aspects.

1.500 abstracts or title citations. Mini abstracts (5 keywords). Titles in original language and GE. Author addresses.

Output arranged by subject, titles of primary journals, author and numerical sequence.

Controlled vocabulary.

Input source: 40 EN, FR and GE primary journals, 35% from secondary sources.

Cumulative data base: 2.400 references.

LANDBOUWDOCUMENTATIE
(AGRICULTURAL DOCUMENTATION)

LANBOWWA

Journal; Card service; Dfl. 42,50; 1945 -

Centrum voor Landbouwpublicaties en Landbouwdocumentatie (PUDOC), Prinses Marijkeweg 19, P.O. Box 4, Wageningen, Netherlands.

Agriculture in temperate climates.

7.500 abstracts in NE. Titles in original language.

Output arranged by subject (UDC)

Subject index (alphabetical, 2-3 keywords) annually. Controlled vocabulary.

Input source: 800-1000 primary journals.

Cumulative data base: 500.000 references.

Additional services: SDI, retrospective retrieval, full-size copies, library loans, translations from Eastern and Western European languages into NE, EN, GE.

LANTBRUKSHOGSKOLAN, KONSULENTAVDELNINGENS LITTERATURTJANST
(LITERATURE ADVISORY SERVICE OF THE ROYAL AGRICULTURAL COLLEGE)

LANKOLUP

Abstract service and card service; irregular; free; 1967 -

Lantbrukshögskolan, Konsulentavdelningen (Royal Agricultural College of Sweden, Research Information Centre) ,S-750 07 Uppsala 7, Sweden; and Lantbrukshögskolan, Konsulentavdelningen, Trädgård (Royal Agricultural College of Sweden, Research Information Centre, Horticultural Division). S-230 53 Alnarp, Sweden.

Agriculture and horticulture in general.

300 abstracts in SS (selected from world literature); titles in original language and SS. Plus 400 title citations (from Scandinavian literature only); titles in original language.

Output arranged by subject (own classification for the agricultural section, UDC for the horticultural section).

Input source: 150 primary journals (see above).

Cumulative data base: 4.000 references.

Additional services: SDI and retrospective retrieval (based on CAIN tapes), full-size copies, library loans.

LAND RESOURCES INFORMATION SERVICE**LANREISU**

In-house data base in card form, accessible to official organizations only; 1968 –

Land Resources Division, Overseas Development Administration, Foreign and Commonwealth Office, Tolworth Tower, Surbiton, Surrey KT6 7DY, UK.

Aspects of agriculture associated with land resources assessment.

2.170 title citations. Mini abstracts. Titles in EN.

Output arranged by subject (UDC).

Subject index (alphabetical).

Input source: 800 primary journals, 15% from secondary sources.

Cumulative data base: 12.500 references.

Additional services: retrospective retrieval, full-size copies, library loans.

**LANDTECHNISCHE ZEITSCHRIFTENSCHAU
(AGROTECHNIC PERIODICAL REVIEW)****LANZEIBR**

Card service; printed title bibliographies; irregular; DM 3,- per issue; 1964 -

Fachdokumentationsstelle für Landtechnik in der Forschungsanstalt für Landwirtschaft, D-33 Braunschweig-Völkenrode, Bundesallee 50, F.R. Germany.

Agricultural engineering and technology; ergonomics.

4.300 abstracts in GE or title citations. Mini abstracts (5 keywords). Titles in original language and GE. Author addresses.

Output arranged by subject, titles of primary journals, author and numerical sequence. Controlled vocabulary.

Input source: 80 primary journals, 30% from secondary sources.

Cumulative data base: 30.000 references.

**LISTA BIBLIOGRAFICA
(BIBLIOGRAPHIC LISTS)****LISBIBBA**

Mimeographed lists; irregular; free; 1967 –

Instituto de Pesquisas Agropecuarias do Leste (IPEAL), Cruz das Almas, Bahia, Brazil – ZC 44380.

Safflower, jute, castor bean, fodder crops, peanut, cacao, sorghum, maize, potatoes, cassava, coconut.

250 title citations. Titles in original language.

Output arranged by author.

Author index.

Input source: 150 primary journals.

Additional services: full-size copies, library loans.

LISTKOVA INFORMACNI SLUZBA (LIS)**LISINSPR**

(CARD INFORMATION SERVICE) issued in 5 basic sections:

- I. FOOD SCIENCE AND TECHNOLOGY; NUTRITION IN GENERAL, 65 specific subject series, 10.000 abstracts;
- II. PLANT FOOD PROCESSING, 21 specific subject series, 8.000 references;
- III. ANIMAL FOOD PROCESSING, 12 specific subject series, 8.000 references;
- IV. FERMENTATION AND BEVERAGE INDUSTRIES, 7 specific subject series, 4.500 references;
- V. OTHER FOOD PRODUCTION, including cosmetics, detergents, soaps and tobacco, 17 specific subject series, 5.500 references.

Card service; 12 x; KCs 0,20 per card.

Stredisko technickych informaci potravinarskelo prumyslu (Technical Information Centre for Food Industry), Praha 1, Gorkeho 32, Czechoslovakia.

42.000 references produced, 31.000 abstracts in CZ or SL plus 4.000 title citations published. Titles in original language and CZ or SL.

Output arranged by subject (UDC) and series number.

Input source: 580 primary journals, 5% from secondary sources.

Cumulative data base: 550.000 references.

Additional services: SDI, retrospective retrieval, full-size and microcopies, library loans, translations from major languages into CZ and SL and vice versa.

1) LIST OF SCIENTIFIC AND TECHNICAL LITERATURE RELATING TO THAILAND**LISSCTBA**

Series No. 1, 1964; No. 2, 1965; No. 3 1969; No. 4, 1969; No. 5 in preparation

2) THAI ABSTRACTS (in preparation)

Journal; irregular; exchange; 1964 -

Thai National Documentation Centre, Applied Scientific Research Corporation of Thailand, 196 Phahonyothin Road, Bang Klen, Bangkok 9, Thailand.

Agriculture in general.

130 abstracts in EN plus 550 title citations. Titles in EN.

Output arranged by subject (UDC).

Subject index (alphabetical, 3 keywords). Controlled vocabulary.

Input source: 20 primary journals, 30% from secondary sources (literature from and on Thailand only)

Cumulative data base: 2.700 references.

Additional services: special bibliographies, full-size and microcopies, library loans, translations from major languages into TH or EN.

LITERATUUR – ATTENDERING**LITATTAL**

(LITERATURE – ALERTING)

Journal; 24 x; 1966 –

Proefstation voor de Groenteteelt in de Vollegrond in Nederland, Hoeverweg 106, Alkmaar, The Netherlands.

Field production of vegetables.

1.775 title citations. Mini abstracts (4 keywords). Titles in original language.

Output arranged by subject (UDC). Controlled vocabulary.

Input source: 125 NE, EN, FR, GE primary journals.

Cumulative data base: 11.000 references.

Additional services: retrospective retrieval, library loans.

LITERATURDIENST DES BUNDES FUER LEBENSMITTELRECHT UND LEBENSMITTELKUNDE e.V. LITBULBH
(LITERATURE SERVICE OF THE ASSOCIATION FOR FOOD LAW AND FOOD SCIENCE)

Journal; 12 x; free (principally to Association members); 1957 –

Bund für Lebensmittelrecht und Lebensmittelkunde e.V., D-534 Bad Honnef 1, im Gier 42, F.R. Germany.

Published by B. Behrs Verlag, D-2 Hamburg, Auerhoffstr. 10, F.R. Germany.

Food legislation, including production, processing, analysis and control of food.

1.100 abstracts in GE. Titles in GE.

Output arranged by subject (own classification).

Subject index (alphabetical, 4-5 keywords) and author index.

Input source: 40 primary journals (F.R.Germany only), 40% from secondary sources.

Cumulative data base: 20.000 references.

LITERATURA DE CACAO
(CACAO LITERATURE)

LITCACTU

Centro Interamericano de Documentación e Información Agrícola (IICA-CIDIA), Turrialba, Costa Rica.

Cacao: production, economics and technology.

200 title citations. Titles in original language.

Output arranged by subject (own classification).

Author index.

Input source: 1.000 EN, FR, PT and SP primary journals.

Cumulative data base: 6.270 references.

Additional services: retrospective retrieval, full-size copies, library loans.

LITERATUURBULLETIN
(LITERATURE BULLETIN)

LITERAHA

Journal; 52 x; free; 1958 –

Landbouw-Economisch Instituut - Bibliotheek (Library, Agricultural Economics Research Institute), Conradkade 175, The Hague 2012, Netherlands.

Agricultural economics and rural sociology.

1.700 abstracts in NE. Titles in original language.

Output arranged by subject (UDC).

Input source: 320 primary journals.

Additional services: library loans.

LITTERATUROVERSIKT FRA SSF
LITERATURE REVIEW OF SCANDINAVIAN FISHERIES.

LITSSFFY

Journal; 5-6 x; free to members; 1969 –

Norwegian Herring Oil and Meal Industry Research Institute, N-5033, Fyllingsdalen, Norway.

Fish composition and utilization, biochemistry and microbiology, handling and preservation; production and utilization of fish meal, fish protein concentrate and fish oil; nutrition (human and animal); food technology; bioengineering.

400 abstracts in NO. Titles in original language.

Output arranged by subject (own classification).

Subject index (permuted keyword index, 3-5 keywords) annually.

Input source: 90 primary journals, 25% from secondary sources.

Cumulative data base: 1.000 references.

Additional services: full-size copies.

LITERATURBERICHTE UBER WASSER, ABWASSER, LUFT UND FESTE ABFALLSTOFFE
(ABSTRACTS ON WATER, WASTE WATER, AIR AND SOLID WASTES)

LITWAABE

Journal, 6 x; DM 75.-; 1951 –

Verein für Wasser-, Boden- und Lufthygiene, D-1 Berlin 33, Postfach, F.R. Germany.

Published by Gustav Fischer Verlag, D-7 Stuttgart 72 (Hohenheim), Wollgrasweg 49, Postfach 53, F.R. Germany.

Water supply; irrigation; waste water disposal; waste removal; environmental damage.

Abstracts in GE. Titles in original language and GE. Author addresses.

Output arranged by subject (own classification).

Subject index (alphabetical, 2 keywords) annually. Author index, each issue and annually.

Input source: 180 primary journals, 5-10% from secondary sources.

Cumulative data base: several hundred thousand references.

Additional services: full-size and microcopies.

MAGYAR MEZOGAZDASAGI BIBLIOGRAFIA
(HUNGARIAN AGRICULTURAL BIBLIOGRAPHY)

MAGMEBBU

Journal; 4 x; Ft. 40,- in Hungary, by exchange only for other countries; 1960 -

Mezőgazdasági és Élelmészügyi Minisztérium Információs Központja/AGROINFORM/, Budapest I, Attila ut 93, Hungary.

Agriculture in general.

1.600 title citations. Titles in Hu.

Output arranged by subject (own classification).

Subject index (alphabetical, 2 keywords) and author index, annually.

Input source: 250 primary journals (Hungary only).

Additional services: library loans, translations.

MAIZ**MAIZMATU**

Printed bibliography; irregular; free; 1960 -

Centro Interamericano de Documentación e Información Agrícola (IICA-CIDIA), Turrialba, Costa Rica.

Maize production, economics and technology.

600 title citations. Titles in original language and PT.

Output arranged by subject (own classification).

Author index.

Input source: 1.000 EN, FR, PT and SP primary journals.

Cumulative data base: 15.800 references.

Additional services: retrospective retrieval, full-size copies, library loans.

MARINE SCIENCE CONTENTS TABLES**MARSCCRO**

Journal; 12 x; free; 1966 -

Fishery Resources Division, FAO, Rome, Italy, and Office of Oceanography, UNESCO, Paris, France.

Marine sciences.

Title citations (reproduced contents tables). Titles in original language.

Output arranged by titles of primary journals.

Input source: 87 primary journals.

Additional services: List of marine science meetings.

**MELDETJENESTEN
(REPORTING SERVICE)****MELDETOS**

Loose-leaves; 12 x; NKr 30,-; 1956 -

Kontoret for landbruksforskning, Postboks 8154, Oslo-Dep. Oslo 1, Norway.

Agriculture in general.

500 abstracts in NO, SS or DA. Titles in original language and NO, SS or DA.

Output arranged by subject (own classification).

Input source: 100 EN, GE, NO, SS and DA primary journals, plus some Swedish and Danish secondary sources.

METEROLOGICAL AND GEOASTROPHYSICAL ABSTRACTS**METGEABO**

Journal; 12 x; \$ 400,- (\$ 200,- to educational institutions); 1950 -

Office of the Executive Director, American Meteorological Society, 45 Beacon Street, Boston, Mass. 02108, USA.

Meteorology, climatology, aeronomy, astrophysics, hydrology, oceanography, glaciology, including application to agriculture, forestry, biology and public health.

12.000 references produced, 1.100 abstracts of AGRIS interest in EN published. Titles in original languages and EN. Author addresses.

Output arranged by subject (UDC).

Subject index (alphabetical, 3 keywords), geographical and author indexes, each issue and annually.

Input source: 225 primary journals.

Cumulative data base: 200.000 references. Computerized 1973.

METEOROLOGICAL OFFICE MONTHLY BIBLIOGRAPHY**M ETOFMBR**

Journal; 12 x; free (primarily for internal use).

Meteorological Office, London Road, Bracknell, Berks., UK.

Meteorology, including hydrometeorology, climatology, biometeorology and bioclimatology, hydrology and oceanography.

7375 title citations, 1.200 of AGRIS interest. Titles in original language and EN.

Output arranged by subject (UDC).

Subject index (alphabetical, 2 UDC numbers). Controlled vocabulary.

Input source: 831 primary journals.

Cumulative data base: 300.000 references. Mechanized.

Additional services: SDI, retrospective retrieval, full-size and occasionally microcopies, library loans.

**MEZINARODNI MYSLIVECKA BIBLIOGRAFIE
(WILDLIFE MANAGEMENT LITERATURE)****MEZMYBPR**

Journal; irregular; free; 1959 -

Vyskumný Ústav Les-Hospodárstvi a Myslivosti (VULHM) (Forestry and Game Research Institute), Praha, Zbraslav Strnady 167, Czechoslovakia.

Hunting; game; zoology of wildlife.

1.860 references produced, 1.200 abstracts in CZ published.

Mini abstracts. Titles in original language and CZ.

Output arranged by subject (ODC).

Subject and author index, annually.

Input source: 310 primary journals.

Cumulative data base: 26.000 references.

Additional services: SDI, retrospective retrieval, library loans, translation from all European languages into RS, FR, EN, GE, NO, SP, SS, HU.

MICROBIOLOGY ABSTRACTS, SECTION A. INDUSTRIAL AND APPLIED MICROBIOLOGY**MICABALO**

Journal; 12 x; £ 40,- in the UK, \$ 150,- elsewhere; 1966 -

Information Retrieval Limited, 1 Falconberg Court, London W1V 5FG, UK.

Industrial and applied aspects of microbiology. Agricultural aspects include foods, food packaging, spoilage and preservation, feeds, post-harvest decay, microbial plant, forestry and fruit-tree diseases and treatment, soil microbiology, veterinary medicine and vaccines, pollution, hygiene.

3.750 abstracts in EN. Titles in original language and EN. Author addresses.

Output arranged by subject and author.

Subject index (alphabetical, 4 keywords) annually. Author index, each issue and annually.

Input source: 3.000 primary journals.

MICROBIOLOGY ABSTRACTS, SECTION B, BACTERIOLOGY

MICABBLO

Journal; 12 x; £ 40,-; 1966 -

Information Retrieval Limited, 1 Falconberg Court, London W1V 5FG, UK.

Bacteriology.

135 abstracts of AGRIS interest in EN. Titles in original language and EN. Author addresses.

Output arranged by subject (own classification).

Subject index (alphabetical, 3 keywords) annually. Author index, each issue and annually. Species index.

Input source: 4.000 primary journals.

Mechanized and computerized.

MICROBIOLOGY ABSTRACTS. SECTION C, ALGOLOGY, MYCOLOGY AND PROTOZOLOGY

MICABCLO

Journal; 12 x; £.40,- in the UK, \$ 150,- elsewhere; 1972 -

Information Retrieval Limited, 1 Falconberg Court, London W1V 5Fg, UK.

All non-industrial aspects of algology (micro- and macro-), mycology (micro- and macro-) and protozoology.

Abstracts in EN. Titles in original language and EN. Author addresses.

Output arranged by subject (own classification).

Subject index (alphabetical, 4 keywords) annually and author index, each issue and annually. Species index.

Partly mechanized.

Input source: 3.000 primary journals.

MILCHWISSENSCHAFT. MILK SCIENCE INTERNATIONAL

MILCHWKI

MILCHWISSENSCHAFTLICHER INFORMATIONSDIENST. CLASSIFIED MILK SCIENCE ABSTRACTS.

Journal; 12 x; DM 120,-; 1946 -

Bibliothek und Archiv mit Dokumentationsstelle und Rechenzentrum der Bundesanstalt für Milchforschung, D-2300 Kiel, Hermann-Weigmann-Str. 1-27, F.R. Germany.

Published by Volkswirtschaftlicher Verlag GmbH, D-8960 Kempten/Allgäu, F.R. Germany.

Dairy husbandry and milk production; milk and milk products; economics; veterinary medicine and hygiene; human nutrition; food additives.

7.000 references produced, 1.750 abstracts in GE or title citations published. Mini abstracts (2 keywords). Titles in original language and GE.

Output arranged by subject (own classification: Bibliotheca lactis).

Subject index (alphabetical) and author index, annually.

Input source: 40 primary journals, 5% from secondary sources.

Cumulative data base: 160.000 references. Computerization in preparation.

Additional services: retrospective retrieval, full-size copies.

MITTEILUNGEN DER DOKUMENTATIONSSTELLE FÜR PFLANZLICHE PRODUKTION
(NEWS OF THE DOCUMENTATION CENTRE FOR PLANT PRODUCTION)

MITDO.FR

Journal; DM 2,50 in F.R. Germany, DM 3,- elsewhere per 100 items;
Card service; DM 3,- in F.R. Germany, DM 4,- elsewhere per 100 citations; 12x; 1964 –

Dokumentationsstelle im Institut für Pflanzenbau und Pflanzenzüchtung, D-805 Freising-Weihenstephan, F.R. Germany.

Abstracts in GE. Titles in original language and GE. Author addresses.
Output arranged by subject (own classification).
Subject index (alphabetical, 15 keywords) and author index, annually.
Input source: 250 primary journals.
Cumulative data base: 15.800 references.
Additional services: retrospective retrieval, full-size copies, library loans.

SERIE PFLANZENBAU
(SERIES PLANT PRODUCTION)

MITDOBFR

Plant production in general (except plant breeding and plant protection) and special crops.
1.200 abstracts.

SERIES PFLANZENZUCHTUNG
(SERIES PLANT BREEDING)

MITDOZFR

Plant breeding.
1.200 abstracts.

MITTEILUNGEN KLOSTERNEUBURG
(KLOSTERNEUBURG COMMUNICATIONS)

MITKLOKL

Journal; 6 x; OS 240,- in Austria, OS 280,- elsewhere; 1953 –

Höhere Bundeslehr- und Versuchsanstalt für Wein und Obstbau, Bibliothek, A-3400 Klosterneuburg, Austria.

Published by Typographische Anstalt, Halbg. 9, A 1071 Wien. Postfach 397. Austria.
Viticulture and oenology; fruit growing, processing, analysis and breeding.
250 abstracts in GE and 1.200 title citations. Titles in original language and in GE, EN, FR or SP.
Output arranged by subject (UDC).
Subject index (alphabetical) and author index, annually.
Input source: 300 primary journals.
Additional services: full-size copies, "Internationale Weinbibliographie" (last issue 1965-1970; 7.337 title citations).

**MONATSSCHRIFT FUER BRAUEREI. WISSENSCHAFTLICHE BEILAGE DER
TAGESZEITUNG FUER BRAUEREI**

MONBRABE

(MONTHLY JOURNAL OF BREWING. SCIENTIFIC SUPPLEMENT TO THE DAILY BREWERY NEWS)

Journal; 12 x; DM 133,36; 1948 –

Versuchs- und Lehranstalt für Brauerei, Institut für Gärungsgewerbe und Biotechnologie, D-1 Berlin 65, Seestrass 13, F.R. Germany.

Brewing and fermentation technology; production of alcohol-free beverages; technical microbiology.

735 abstracts in GE or title citations. Titles in original language and GE.

Output arranged by subject (own classification: BC-classification).

Subject index (alphabetical, 1 keyword) and author index, annually.

Input source: 350 primary journals.

Additional services: retrospective retrieval, full-size copies.

**MUSZAKI LAPSZEMLE, ÉLELMISZERIPAR
(TECHNICAL ABSTRACTS JOURNAL, FOOD INDUSTRY)**

MUSLAEBU

Card service up to 1972; journal; 12 x; Ft. 360.-; 1949 –

*Országos Műszaki Könyvtár es Dokumentációs Központ.
(Hungarian Central Technical Library and Documentation Centre), H-1428 Budapest, P.O. Box 12, Hungary*

Agriculture in general

9.000 references produced, 3,900 abstracts in HU and 2.675 title citations published. Titles in original language and HU.

Output arranged by subject (UDC)

Subject index (alphabetical, 1,6 - 2 keywords).

Input source: 300 primary journals.

Cumulative data base: 100.000 references.

Additional services: SDI, retrospective retrieval, full-size and microcopies, library loans, translations from the 20 most used languages into EN, FR, GE, RS, HU.

**MUSZAKI LAPSZEMLE, GEPESZET
(TECHNICAL ABSTRACTS JOURNAL, MECHANICAL ENGINEERING)**

MUSLAGBU

Card service up to 1972; journal; 12 x; Ft. 480.-; 1949 –

*Országos Műszaki Könyvtár es Dokumentációs Központ.
(Hungarian Central Technical Library and Documentation Centre), H-1428 Budapest, P.O. Box 12, Hungary.*

Agriculture in general.

465 abstracts in HU and 100 title citations in HU of AGRIS interest. Titles in original language and HU.

Output arranged by subject (UDC).

Subject index (alphabetical, 1,6 - 2 keywords)

Input source: primary literature.

Cumulative data base: 800.000 references.

Additional services: SDI, retrospective retrieval, full-size and microcopies, library loans, translations from the 20 most used languages into EN, FR, GE, RS, HU.

MUSZAKI LAPSZEMLE, KÉMIA, VEGYIPAR
(TECHNICAL ABSTRACTS JOURNAL, CHEMISTRY, CHEMICAL ENGINEERING)

MUSLAKBU

Card service up to 1972; journal; 12 x; Ft. 480.-; 1949 –

Országos Műszaki Könyvtár és Dokumentációs Központ.
(Hungarian Central Technical Library and Documentation Centre), H-1428 Budapest, P.O. Box 12, Hungary

Plant nutrition and fertilizers; pests; weeds; food chemistry.

350 abstracts in HU and 60 title citations in HU of AGRIS interest. Titles in original language and HU.

Output arranged by subject (UDC).

Subject index (alphabetical, 1,6 - 2 keywords).

Input source: primary literature.

Cumulative data base: 900.000 references.

Additional services: SDI, retrospective retrieval, full-size and microcopies, library loans, translations from the 20 most used languages into EN, FR, GE, RS, HU.

1) NORIN TOSHO SHIRVO GEPPŌ
(MONTHLY BULLETIN OF PUBLICATIONS AND MATERIALS) 1950 –

NORTOSTO

2) NORIN BUNKEN KAIDAI
(ANNUAL ANNOTATED CATALOGUE OF AGRICULTURE AND FORESTRY) 1955 –

Journal; Card service; 12 x; Yen 2,160

Library of Ministry of Agriculture and Forestry, Kasumigaseki 1-2-1, Chiyoda-Ku, Tokyo, Japan.

1) Published by Norin Tokai Kyokai, Meguro 2-11-14, Meguro-ku, Tokyo, Japan

2) Published by Nippon Nogyobunko, Kasumigaseki 1-2-1, Chiyoda-ku, Tokyo, Japan.

Agriculture in general.

19.900 references produced, 300 abstracts in JA and 6.400 title citations published. Titles in original language.

Output arranged by subject (own classification) and author.

Subject index (alphabetical, 1 keyword) and author index, each issue.

Input source: 1265 primary journals.

Cumulative data base: 158.000 references.

Additional services: full-size copies and microcopies, library loans.

NUCLEAR SCIENCE ABSTRACTS

NUCSCAOA

Journal; 24x; \$ 42,- (plus \$ 34,50 for cumulative indexes) in USA, \$ 52,50 (plus \$ 43,-) elsewhere; 1947 –

Technical Information Center, U.S. Atomic Energy Commission, P.O. Box 62, Oak Ridge, Tennessee 37830, USA.

Published by Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402, USA.

Nuclear science, including application to agriculture, food science, biology and environment.

60.000 abstracts in EN, including about 1.200 abstracts of AGRIS interest. Titles in EN. Author addresses.

Output arranged by subject (own classification).

Subject index (3,6 keywords) and author index, each issue, quarterly, annually and 5-yearly.

Input source: 3.300 primary journals, 5% from secondary sources.

Cumulative data base: 660.000 references. Mechanized and computerized.

Additional services: retrospective retrieval.

NUTRITION ABSTRACTS AND REVIEWS**NUTABRAB**

Journal; 4 x; £ 18,- in CAB-associated countries, £ 45,- elsewhere; 1931 -

Commonwealth Bureau of Nutrition, Rowett Research Institute, Bucksburn, Aberdeen, AB2 9SB, UK. Unit of Commonwealth Agricultural Bureaux, Farnham Royal, Slough SL2 3BN, UK.

Published by Commonwealth Agricultural Bureaux, Farnham Royal, Slough SL2 3BN, UK.

Human and animal nutrition.

6.970 abstracts in EN and 1.950 title citations. Titles in original language and EN. Author addresses.

Output arranged by subject (own classification).

Subject index (alphabetical, 3 keywords) annually. Author index, each issue and annually. Controlled vocabulary.

Input source: 1.100 primary journals.

Cumulative data base: 234.500 references. Computerized 1973.

Additional services: retrospective retrieval, full-size copies.

NYT FRA BIOCENTRALEN**NYTBIOHO**

(NEWS FROM THE BIOCENTRE)

Journal; 10 x; DKr 75,-; 1967 -

Biocentralen, Venlighedsvej, 2970 Horsholm, Denmark.

Food and biotechnical industry.

750 abstracts in DA. Titles in original language.

Output arranged by subject (own classification).

Subject index (alphabetical).

Input source: 140 EN, FR, GE, DA, NO, SS primary journals, 75% from secondary sources.

Additional services: retrospective retrieval, library loans.

OCEANIC ABSTRACTS**OCEABSLA**

Formerly OCEANIC CITATION JOURNAL AND OCEANIC INDEX

Journal; 6 x; \$ 300.-; 1964 -

Oceanic Abstracts, c/o Pollution Abstracts Inc., P.O. Box 2369, La Jolla, California 92037, USA.

Sea fisheries, fish and marine products.

350 abstracts in EN plus 230 title citations of AGRIS interest. Titles in original language. Author addresses.

Output arranged by subject (own classification).

Subject index (Keytalpa, 5 keywords) and author index, each issue, irregular cumulation. Controlled vocabulary.

Input source: 1500 primary journals.

Cumulative data base: 50.000 references. Mechanized.

Additional services: SDI, retrospective retrieval, full-size copies, library loans.

OLEAGINEUX – REVUE INFORMATIONALE DES CORPS GRAS
(OLEAGINEUX – INTERNATIONAL REVIEW OF FATS AND OILS)

OLEREIPA

Journal; 11 x; FF 85,- in France, FF 110,- elsewhere; 1946 –

Institut de Recherches pour les Huiles et Oleagineux (I.R.H.O.), 11, square Petrarque, 45016 Paris, France.

Agronomy of temperate and tropical oilseed crops; chemistry, technology and economics of plant and animal fats, including soaps and detergents.

2.200 references produced. 1.600 abstracts in FR. Titles in original language and FR.

Output arranged by subject (own classification, UDC).

Input source: 260 primary journals, 18% from secondary services.

Cumulative data base contains 322.000 file cards, including cards for author (max. 3 authors), subject (4 headings) and geographical indications. To be computerized.

Additional services: full-size copies, library loans.

PACKAGING ABSTRACTS

PACABSLE

Journal and card service; 12 x; £ 17.50; 1944 -

The Research Association for the Paper and Board, Printing and Packaging Industries (PIRA), Randalls Road, Leatherhead 76161, Surrey, UK.

Packaging of meat, fruit and dairy products, vegetables; shipping containers for all types of agricultural produce and associated machinery; handling, storage and transport; packaging for export; packaging legislation; standards and test methods.

850 abstracts of AGRIS interest in EN. Titles in EN.

Output arranged by subject (own classification).

Subject index (alphabetical, 5 keywords) and author index, annually.

Cumulative data base: 105.500 references. Partly computerized.

Additional services: retrospective retrieval, full-size copies, library loans, translations from major languages into EN.

PACKAGING BULLETIN

PACBULDA

Journal; 24 x; \$ 45.- in USA, \$ 55.- elsewhere; 1969 –

Packaging Library, Main Library Bldg., Room 450, University of California, Davis, California 95616, USA.

Packaging, including packaging of various products, packaging materials and containers, graphic and structural design, packaging machinery, laws and regulations, and packaging wastes management.

2.500 references produced, 1.220 abstracts of AGRIS interest in EN published. Titles in EN. Author addresses.

Output arranged by subject (own classification).

Input source: 175 primary journals.

Cumulative data base: 12.000 references.

Additional services: retrospective retrieval, full-size copies, translations from GE, FR, SP, JA, CH, RS into EN.

PAKISTAN SCIENCE ABSTRACTS

PAKSCAKA

Journal; 4 x; Rupees 8,- in Pakistan, Rupees 44,-elsewhere; 1961 –

Pakistan National Scientific and Technical Documentation Centre (PANSDOC), 142-c, Block II, P.E.C.H. Society, Karachi-29, Pakistan.

Agriculture in general.

300 abstracts in EN. Titles in EN. Author addresses.

Output arranged by subject (UDC).

Subject index (alphabetical, 4 keywords), each issue and annually.

Author index, each issue. Controlled vocabulary.

Input source: 50 primary journals (Pakistan only).

Cumulative data base: 17.900 references. Partly mechanized.

Additional services: retrospective retrieval, full-size and microcopies, translations from AN, CH, NE, FR, GE, IT, KZ, PE, PT, RS, SP, SS, TK into EN.

PAPER AND BOARD ABSTRACTS

PAPBOALE

Formerly (1965 – 1968) Kenley Abstracts.

Journal; 12 x; 15.-; 1965 –

The Research Association for the Paper and Board, Printing and Packaging Industries, (PIRA), Randalls Road, Leatherhead 76161, Surrey, UK.

Paper and board making.

2.200 references produced, 1.900 abstracts of AGRIS interest in EN published. Titles in EN.

Output arranged by subject (own classification).

Input source: 90 primary journals, 5% from secondary sources.

Cumulative data base: 250.000 references.

Additional services: retrospective retrieval, full-size copies, library loans, translations into EN.

PEAT ABSTRACTS

PEAABSKI

Journal; 4 x; free; 1951 -

Bord Na Mona, Scientific Office, Droichead Nua, Co. Kildare, Republic of Ireland.

Peat production and utilization as fuel and in horticulture and agriculture; peatland reclamation.

430 abstracts, including 300 of AGRIS interest. Titles in EN.

Output arranged by subject (own classification).

Controlled vocabulary.

Input source: 6 primary journals, 60% from secondary sources.

Cumulative data base: 1.400 references.

Additional services: SDI, retrospective retrieval, full-size copies, library loans, translations.

PESTDOC**PESTDOL**

Journal, Card service, Microforms, Machine punched cards and Magnetic tapes; £ 15.50; 1968 -

Derwent Publications Ltd., Rochdale House, 128 Theobalds Road, London WC1 X8RP, UK.

Pests (including ectoparasites). Chemical products (excluding fertilizers). Synthesis and chemical, physical and biological properties of pesticides. Toxicity of pesticides to animals and other secondary effects. Pesticide legislation.

20.650 abstracts in EN. Titles in original language or EN.

Output arranged by subject (own classification) and by titles of primary journals.

Subject index (KWIC, 8 keywords), each issue. Author index, annually. Controlled vocabulary.

Input source: 190 primary journals, 10% from secondary sources.

Mechanized and computerized.

**PHOSPHORE ET AGRICULTURE
(PHOSPHORUS AND AGRICULTURE)****PHOAGRPA**

Journal; 2 x; free -

Association Internationale des Fabricants de Superphosphate et d'Engrais Composés (ISMA), 6, Rue de Léningrad, Paris 8e, France.

Phosphorus in agriculture.

1.000 references produced, 700 abstracts in EN and FR published. Titles in EN and FR.

Output arranged by subject (own classification).

Controlled vocabulary.

Additional services: full-size copies, translation from EN into FR.

PLANT BREEDING ABSTRACTS**PLABRACA**

Journals; 4 x; £ 14,- in CAB-associated countries, £ 35,- elsewhere; 1930 -

Commonwealth Bureau of Plant Breeding and Genetics, Department of Applied Biology, Downing Street, Cambridge CB2 3BX. Unit of Commonwealth Agricultural Bureaux, Farnham Royal, Slough SL2 3BN, UK.

Published by Commonwealth Agricultural Bureaux, Farnham Royal, Slough SL2 3BN, UK.

Breeding and genetics of economic plants.

10.600 references produced, 9.370 abstracts in EN published. Titles in original language and EN.

Output arranged by subject (UDC).

Subject index (alphabetical, 2-3 keywords) annually. Author index, each issue and annually. Controlled vocabulary.

Input source: 2.157 primary journals, 5% from secondary sources.

Cumulative data base: 250.000 references. Computerized 1973.

Additional services: retrospective retrieval, full-size and microcopies, library loans, translations from major languages into EN.

POLLUTION ABSTRACTS**POLABSLA**

Journal; 6 x; \$ 70,-; 1970 -

Pollution Abstracts Inc., P.O. Box 2369, La Jolla, California 92037, USA.

Pollution in relation to agriculture.

650 abstracts in EN. Titles in original language and EN.

Output arranged by subject (own classification).

Subject index (Keytalpa, 5 keywords), each issue and 2-yearly. Controlled vocabulary.

Input source: 1.000 primary journals, 5% from secondary sources.

Cumulative data base: 8.400 references. Mechanized.

Additional services: SDI, retrospective retrieval, full-size copies.

POLISH ECOLOGICAL BIBLIOGRAPHY**POLECBWA**

Journal; Mimeograph publication; 1 x; free and exchange; 1959 -

Komitet Ekologiczny PAN / Ecological Committee of the Polish Academy of Sciences / Institute of Ecology, Dziekanów Lésuy n. Warsaw, Poczta Lomianki, Poland.

Ecology of forest, meadow, grassland, orchard and arable field ecosystems; ecology of plant and animal populations, species and individuals.

525 references produced, 370 abstracts published in EN. Titles in PO and EN.

Output arranged by author.

Subject index (4 keywords), each issue and annually. Taxonomic index, each issue.

Input source: 150 primary journals (Poland only).

Cumulative data base: 5.250 references.

Additional services: retrospective retrieval, library loans.

POLLUTION LOOKOUT**POLLOOST**

Journal; 12 x; S.Kr. 150.- in Sweden, S.Kr. 250,- elsewhere; 1971 -
Magnetic tapes.

Biomedical I Documentation Centre, Karolinska Institutet, Fack, S-10401 Stockholm 60, Sweden.

Environmental sciences (air and water pollution, health effects, effects on animals and plants, analyses).

6.000 references produced, 1.430 title citations published. Mini abstracts (3-4 keywords). Titles in EN. Author addresses.

Output arranged by subject (own classification).

Subject index (KWOC) and author index, annually.

Input source: 20 primary journals; 90% from secondary sources.

Computerized.

Additional services: SDI, retrospective retrieval (on the basis of the following data bases: MEDLARS, Chemical Abstracts Condensates, Biological Abstracts Previews and Bio Research Index).

**PREHLED LESNICKE A MYSLIVECKE LITERATURY
(REVIEW OF FORESTRY AND HUNTING LITERATURE)**

PRELEMPR

Journal; 12 x; KCs 120,-; 1957 –

Ústav vědeckotechnických informací, Praha 2 – Vinohrady, Slezská 7, Czechoslovakia.

Forestry, wood technology, game and hunting.

4.300 references produced, 2.770 abstracts published in CZ or SL. Titles in original language and CZ or SL. Author addresses.

Output arranged by subject (ODC).

Subject index (alphabetical, 2-3 keywords) and author index, annually.

Input source: 220 primary journals.

Cumulative data base: 220.000 references.

Additional services: retrospective retrieval, full-size copies and microcopies, library loans, translations from CZ, SL into EN, RS, GE, FR and vice versa.

PROCEEDINGS OF THE INTERNATIONAL SEED TESTING ASSOCIATION

PROINSAS

Journal; 1 x; NKr 150,-; free to members; 1925 -

International Seed Testing Association (ISTA), Box 68, N-1432 Aas-NLH, Norway.

All matters related to seeds with emphasis on seed production, seed processing, seed testing and certification, seed distribution.

4.300 title citations. Titles in original language and EN, FR or GE. Author addresses.

Output arranged by subject (own classification).

Subject index (alphabetical) and author index, annually.

Input source: primary literature, 95% from secondary sources.

Additional services: translations from and into EN, FR, GE (lately also SP).

**PRZEGLAD DOKUMENTACYJNY CIAGNIKOW I MASZYN ROLNICZYCH
(REVIEW OF DOCUMENTATION ON TRACTORS AND AGRICULTURAL MACHINERY)**

PRZDOCPO

Journal; 12 x; Zl. 450,-

Przemysłowy Instytut Maszyn Rolniczych, Branżowy Ośrodek Informacji Naukowo-Technicznej i Ekonomicznej, Poznań, ul. Starolecka 31, Poland.

Agricultural machinery and equipment.

3.500 abstracts in PO and 110 title citations. Titles in original language and PO.

Output arranged by subject (own classification), UDC.

Controlled vocabulary.

Input source: 110 primary journals and some secondary sources.

Partly mechanized.

Additional services: SDI, full-size and microcopies, library loans, translations from EN, FR, GE, RS, IT into EN, FR, GE, RS.

PUDOC BULLETIN**PUDBULWA**

Journal; 3 x; Dfl 11,- in the Netherlands, exchange elsewhere; 1960 -

Centrum voor Landbouwpublicaties en Landbouwdocumentatie (PUDOC), Prinses Marijkeweg 19, Postbus 4, Wageningen, Netherlands.

Agriculture in general.

2.000 title citations. Titles in EN. Author addresses.

Output arranged by subject (own classification)

Subject index and index of institutions and organizations, annually. Author index, each issue and annually.

Input source: primary literature (Netherlands only).

Additional services: full-size and microcopies, library loans, translations from NE into EN.

QUARTERLY LIST OF TITLES ON LAND AND WATER DEVELOPMENT**QUALITWA**

Journal; 4 x; free; 1971 -

International Institute for Land Reclamation and Improvement, Staring Building, Prinses Marijkeweg 11, Wageningen, The Netherlands.

Land and water development, particularly in developing countries (including land reclamation and drainage, irrigation, project planning and evaluation).

7.000 title citations. Titles in original language.

Output arranged by subject (UDC) and author.

Input source: 200 EN, FR, GE primary journals.

Cumulative data base: 100.000 references.

Additional services: SDI, retrospective retrieval, full-size copies, library loans (in the Netherlands only).

REFERATIVEN BYULETIN ZA BULGARSKA NAUCHNA LITERATURA.**REFBYBSO****SERIA A. RASTENIEVUDSTVO I GORSKO STOPANSTVO****SERIA B. ZHIVOTNOVUDSTVO I VETERINARNA MEDITSINA****(ABSTRACTS OF BULGARIAN SCIENTIFIC LITERATURE. SERIES A. PLANT BREEDING****AND FORESTRY. SERIES B. ANIMAL BREEDING AND VETERINARY MEDICINE)**

Journal; 4 x; Leva 6,-; 1956 -

Centr za selskостopanska i technicheska informacija i dokumentacija (BASN), (Center for Scientific, Technical and Economic Information in Agriculture and Forestry), 6 Blvd. Dragan Tzankov, Sofia, Bulgaria.

Agricultural economics; crop production and protection; forestry; animal husbandry and veterinary medicine; agricultural machinery.

1.800 abstracts in EN and RS. Titles in EN and RS.

Output arranged by subject (UDC).

Subject index (KWOC, 6 keywords) and author index, each issue.

Input source: 42 primary journals (Bulgaria only).

Partly computerized.

Additional services: retrospective retrieval, full-size and microcopies, translations from major languages into BU and vice versa.

REFERATEBLATT ZUR RAUMORDNUNG (RzR)
(ABSTRACT JOURNAL FOR AREA PLANNING)

REFRAUBO

Journal; 4 x; DM 72.-; 1969 –

Institut für Raumordnung, D-53 Bonn-Bad Godesberg, Postfach 130, F.R. Germany.
Published by Carl Heymanns Verlag KG, D-5 Köln, Gereonstr. 18-32, F.R. Germany.

Agricultural geography and rural sociology.
1.200 abstracts in GE. Titles in original language.
Output arranged by subject (UDC).
6 keywords. Controlled vocabulary.
Input source: 300 GE, EN, FR primary journals (Central Europe mainly).
Cumulative data base: 5.000 references.
Additional services: retrospective retrieval.

REORDENAMENTO, REVISTA DA JUNTA PROVINCIAL DE POVOAMENTO, DE ANGOLA
(REORGANIZATION. REVIEW OF THE PROVINCIAL BOARD FOR SETTLEMENT OF ANGOLA)

REORDELU

Printed list; 24 x; free; 1966 -

Junta Provincial de Povoamento de Angola, Departamento de Estudos, D. Documentacao, C.P. No. 6333, Luanda, Angola.

Agriculture; horticulture and fruit cultivation; cattle breeding; economics; food industry; extension, cooperation and planning.
1.400 references produced, 800 title citations published. Titles in original language.
Output arranged by subject, author and document title.
Controlled vocabulary.
Input source: primary EN, FR, IT, SP and PT literature.
Cumulative data base: 5.560 references
Additional services: SDI, full-size copies, library loans, translations from EN and FR into PT.

RESUMENES DE ARTICULOS CIENTIFICOS Y TECNICOS
SERIE D, FASCICOLO 1 INGENIERIA RURAL.
(SUMMARIES OF SCIENTIFIC AND TECHNICAL ARTICLES.
SERIES D. PART 1, RURAL ENGINEERING)

RESARCMA

Journal; 12 x; Ptas 1.000.-; 1967 –

Centro de Informacion y Documentacion. Patronato "Juan de la Cierva" de Investigacion Tecnica, Joaquin Costa, 22, Madrid-6, Spain.

Agricultural machinery and equipment; rural electricity; application of technology in agriculture; fertilizers and insecticides; animal feeding.
2.350 abstracts in SP.
Output arranged by subject (UDC).
Subject index (alphabetical). Controlled vocabulary.
Input source: 170 primary journals.
Mechanized (Filmorex); to be computerized.
Additional services: retrospective retrieval, full-size and microcopies, translations into ES.

RESUMO DE TESES
(ABSTRACTS OF THESES)

RESTESPI

Journal; 1 x ; exchange; 1967 -

Escola Superior de Agricultura 'Luiz de Queiroz', Caixa Postal 9, 13400 Piracicaba, SP-Brazil.

Agriculture in general.

Abstracts in PT and EN. Titles in PT and EN.

Output arranged by subject (Dewey).

Input source: dissertations from Brazil.

REVIEW OF APPLIED ENTOMOLOGY. SERIES A. AGRICULTURAL

REVAEALO

Journal; 12 x; £ 10,- in CAB-associated countries, £ 26,- elsewhere; 1913 -

Commonwealth Institute of Entomology, 56 Queen's Gate, London SW7 5JR, UK. Unit of Commonwealth Agricultural Bureaux, Farnham Royal, Slough SL2 3BN, UK.

Published by Commonwealth Agricultural Bureaux, Farnham Royal, Slough SL2 3BN, UK.

Arthropod pests of agricultural crops, ornamental plants, trees, structural materials, manufactured goods; pesticides and their effects on non-target biota; arthropod physiology and biochemistry; arthropod parasites and predators; beneficial arthropods.

2.900 abstracts in EN plus 1.150 titles citations. Titles in original language and EN. Author addresses.

Output arranged by titles of primary journals.

Subject index (alphabetical, 6.3 keywords) annually. Geographical and author index, each issue and annually. Controlled vocabulary.

Input source: 1.400 primary journals, 6% from secondary sources.

Computerized 1973.

Additional services: retrospective retrieval, full-size copies, library loans.

REVIEW OF APPLIED ENTOMOLOGY. SERIES B. MEDICAL AND VETERINARY

REVAEBLO

Journal; 12 x; £4,- in CAB-associated countries, £10,- elsewhere; 1913 -

Commonwealth Institute of Entomology, 56 Queens' Gate, London SW7 5JR, UK. Unit of Commonwealth Agricultural Bureaux, Farnham Royal, Slough SL2 3BN, UK.

Published by Commonwealth Agricultural Bureaux, Farnham Royal, Slough SL2 3BN, UK.

Medical and veterinary entomology and acarology; systematics; arthropod physiology; toxicology; biochemistry; disease transmission; pesticides.

780 abstracts in EN and 170 title citations. Titles in original language and EN. Author addresses.

Output arranged by titles of primary journals.

Subject index (alphabetical, 5.4 keywords) annually. Geographical index, each issue. Controlled vocabulary.

Input source: 1.400 primary journals, 10% from secondary sources.

Computerized 1973.

Additional services: retrospective retrieval, full-size copies, library loans.

REVUE D'ELEVAGE ET DE MEDECINE VETERINAIRE DES PAYS TROPICAUX
Formerly (1927-1947) *Recueil de médecine vétérinaire exotique.*

REVELMMA

(REVIEW OF ANIMAL HUSBANDRY AND VETERINARY MEDICINE OF TROPICAL COUNTRIES)

Journal; Card service; 4 x; FF 35,- in France, FF 45,- elsewhere; 1927 –

Institut d'Elevage et de Médecine Vétérinaire des Pays Tropicaux (IEMVT), 10, rue Pierre Curie, 94-Maison-Alfort, France.

Published by Vigot Frères, 23, rue de l'Ecole de Médecine, 75-Paris 6e, France.

Animal husbandry and veterinary medicine; domestic animals of tropical countries.

3.000 references produced, 330 abstracts in FR. Titles in original language and FR.

Output arranged by subject (own classification).

Subject index (alphabetical), geographical and author index, annually.

Input source: 360 primary journals.

Cumulative data base: 50.000 references.

Additional services: bibliographies, full-size copies.

REVISTA FORESTAL ARGENTINA
(CRONICA BIBLIOGRAFICA)

REVFOABU

(ARGENTINA FORESTRY REVIEW. BIBLIOGRAPHIC CHRONICLE)

Journal; 4 x; Pesos 20,- in Argentina, \$ 8,-elsewhere; 1957 –

Private editor: Prof. Ing. Domingo Cozzo, av. Directorio 3882, Buenos Aires, Argentina.

Forestry, mainly silviculture.

100 abstracts in SP plus 100 title citations in SP. Titles in original language and SP.

Output arranged by author.

Input source: 30 primary journals.

Additional service: library loans.

REVUE FRANCAISE DES CORPS GRAS
(FRENCH REVIEW OF FATS AND OILS)

REVFRCPA

Journal; Card service; 12 x; FF 120,- in France, FF 150,- elsewhere; 1954 –

Institut des Corps Gras (ITERG), 5 boulevard de Latour-Maubourg, Paris 7e, France.

Published by Revue Française des Corps Gras, 60, rue de Richelieu, 75-Paris 2e, France.

Oilseeds, fatty acids, fats, oils, detergents and soaps.

3.000 abstracts in FR. Titles in FR.

Output arranged by subject (own classification).

Subject index (KWIC, 3-5 keywords) and author index, annually. Controlled vocabulary.

Input source: 200 primary journals.

Cumulative data base: 400.000 references. Mechanized, KWIC index computerized.

Additional services: SDI, full-size copies, library loans, translations from EN, GE, PO, RS into FR.

**TURRIALBA, REVISTA INTERAMERICANA DE CIENCIAS AGRICOLAS, RESENAS DE LIBROS
(TURRIALBA, INTERAMERICAN JOURNAL OF AGRICULTURAL SCIENCES. BOOK REVIEWS)**

REVINCTU

Journal; 3 x; \$ 25.20; 1950 –

Centro Interamericano de Documentacion e Informacion Agricola, (IICA-CIDIA), Turrialba, Costa Rica.

Agriculture in general.

Abstracts in SP and EN. Titles in original language.

Output arranged by author.

Author index, annually.

Input source: primary literature.

Additional services: SDI, full-size copies, library loans.

REVIEW OF MEDICAL AND VETERINARY MYCOLOGY

REVMEVKE

Journal; 4 x; £ 4,- in CAB-associated countries, £ 10,- elsewhere; 1943 –

Commonwealth Mycological Institute, Ferry Lane, Kew, Richmond TW9 3AF, Surrey, UK. Unit of Commonwealth Agricultural Bureaux, Farnham Royal, Slough SL2 3BN, UK.

Published by Commonwealth Agricultural Bureaux, Farnham Royal, Slough SL2 3BN, UK.

Veterinary and medical mycology, including mycoses, allergic disorders and poisoning.

1830 references produced, 1500 abstracts in EN published. Titles in original language and EN. Author addresses.

Output arranged by subject (own classification).

Subject index (alphabetical, 5 keywords), 3-yearly. Author index, each issue and 3-yearly.

Input source: 180 primary journals, 4% from secondary sources.

Cumulative data base: 19.000 references. Computerized 1973.

Additional services: full-size copies, library loans.

REVIEW OF PLANT PATHOLOGY

REVPLPKE

Journal; 12 x; £ 12,- in CAB-associated countries, £ 31,- elsewhere; 1922 –

Commonwealth Mycological Institute, Ferry Lane, Kew, Richmond TW9 3AF, Surrey, UK. Unit of Commonwealth Agricultural Bureaux, Farnham Royal, Slough SL2 3BN, UK.

Published by Commonwealth Agricultural Bureaux, Farnham Royal, Slough SL2 3BN, UK.

Diseases of plants caused by fungi, bacteria, viruses etc., and non-parasitic factors.

4000 abstracts in EN. Titles in original language and EN.

Output arranged by subject (own classification).

Subject index (alphabetical, 5 keywords), annually. Host/pathogen cumulative index for Vol. 1-40. Author indexes, each issue and annually.

Input source: 1.000 primary journals, 6% from secondary sources.

Cumulative data base: 120.000 references. Computerized 1973.

Additional services: full-size copies, library loans.

REVISTA DE REFERATE
(REVIEW OF ABSTRACTS)

REVREFBU

Published in the following 11 series: *Economia agrara* (Agricultural economics) 1967.– *Cultura plantelor de cimp* (Field crop production) 1965.– *Hortivicultura* (Horticulture and viticulture) 1965.– *Cresterea animalelor* (Animal production) 1965.– *Medicina veterinara* (Veterinary Medicine) 1965.– *Mecanizarea agriculturii si constructii agricole* (Agricultural mechanization, engineering and construction) 1965.– *Stiinta solului si irigatii* (Soil science and irrigation) 1967.– *Protectia plantelor* (Plant protection) 1967.– *Pastrarea, prelucrarea si valorificarea produselor agroalimentare* (Preservation and processing of agricultural food products) 1972.– *Producerea, conservarea, si valorificarea furajelor* (Production, conservation and utilization of fodders) 1971.– *Organizarea teritoriului, cadastru si masuri terestre* (Land planning, surveying and measuring) 1970.

Journal; 12 x; free.

Centrul de Informare si Documentare Pentru Agricultura si Silvicultura, Bd. Marasti No. 61, Bucuresti, Romania

16.750 abstracts in RO. Titles in original language and RO.

Output arranged by subject (own classification).

Subject and author index, each issue and annually. Controlled vocabulary.

Input source: 1.800 primary journals.

Cumulative data base: 170.000 references. Computerized.

Additional services: SDI, retrospective retrieval, full-size copies and microcopies, library loans, translations from EN, FR, GE, IT, RS, SP, BU, PO, CZ into RO.

THE RICE JOURNAL

RICJOUWA

Journal; 10 x; \$ 5,- in USA, \$ 7,- elsewhere; 1897 –

Rice Journal Enterprises, Inc., P.O. Box 14260, Washington, D.C. 20044, USA.

Rice

70 abstracts in EN. Mini abstracts. Titles in original language and EN.

Input source: EN primary literature.

RIVISTA DI AGRICOLTURA SUBTROPICALE E TROPICALE
(REVIEW OF TROPICAL AND SUBTROPICAL AGRICULTURE)

RIVAGSFI

In-house data base in card form; 4 x; L. 5.000 in Italy; L. 6.000 elsewhere; 1907 –

Istituto Agronomico per l'Oltremare (Ministero degli Affari Esteri), Via Antonio Cocchi No. 4, 50131 Firenze, Italy.

Tropical and subtropical agriculture.

7.000 title citations produced. Titles in original language.

Output arranged by subject (own classification), by titles of primary journals and authors.

Subject index (alphabetical), and author index, annually; taxonomic index: 'Catalogo della Collezione Entomologica'.

Input source: 500 primary journals.

Cumulative data base: 302.500 references.

Additional services: full-size and microcopies, library loans.

ROMANIAN SCIENTIFIC ABSTRACTS *)

ROMSCABU

Journal; 12 x; Lei 120 ; 1964 -

Information and Documentation Centre for Education (Ministry of Education), Str. Gutenberg, 3 bis, Bucuresti, Romania.

Natural Sciences; basic research with biological aspects.

2.800 abstracts in EN and RS. Mini abstracts. Titles in EN and RO.

Output arranged by subject (UDC).

Subject index (alphabetical), annually. Controlled vocabulary.

Input source: primary literature (Romania only).

*) Arrived after deadline, not included in statistical calculations.

**SAUGETIERKUNDLICHE SCHRIFTENSCHAU
(LITERATURE REVIEW ON MAMMALS)**

SAUSCHMU

Journal; 4x ; DM 8,- per 16 pages; 1953 -

Säugetierkundliche Mitteilungen, Schriftleitung: Dr. Th. Haltenorth, Zoologische Staatssammlung, Maria Ward-strasse 1b, 8-München 19, F.R. Germany.

Published by BLV-Verlagsgesellschaft mbH, Lothstrasse 29, 8-München 40, F.R. Germany.

Animal breeding; domestic mammals.

Title citations. Titles in original language.

Output arranged by subject (own classification) and author.

Input source: 800 primary journals.

Cumulative data base: 5.000 references.

Additional services: full-size copies.

**SCHRIFTTUM DER AGRARWIRTSCHAFT
(LITERATURE OF RURAL ECONOMY)**

SCHAGRWI

Journal; 6x; OS 284,-; 1960 -

Schrifttum der Agrarwirtschaft, 1133 Wien (XIII), Schweizertalstrasse 36, Austria.

Published by Osterreichischer Agrarverlag, Bankgasse 3, A-1014 Wien, Austria.

Agricultural economics; marketing; rural sociology; area planning.

300 abstracts in GE and 200 title citations. Titles in GE.

Output arranged by subject (Frauendorfer classification).

Subject index (4-5 keywords) and author index, annually. Controlled vocabulary.

Input source: 50 primary GE, EN and FR journals (title citations of AU literature only).

Cumulative data base: 9.000 abstracts and 15.500 title citations.

Additional services: library loans.

**SCHRIFTTUMSUBERSICHT LARMMINDERUNG
(REVIEW OF NOISE ABATEMENT LITERATURE)**

SCHLAEDU

Journal; 12 x; DM 48,-; 1966 –

VDI – Dokumentationsstelle, Fachdokumentation Lärminderung, D-4000 Düsseldorf, Graf-Reckestr. 84, Postfach 1139, F.R. Germany.

Noise abatement, also in relation to landscaping.

600 abstracts in GE. Titles in GE or EN.

Output arranged by subject (own classification).

Input source: 20 GE and EN primary journals, 20% from secondary sources.

Cumulative data base: 3.400 references.

Additional services: retrospective retrieval, full-size and microcopies, library loans.

**SCHRIFTTUMSKARTEIDIENST DER OSTERREICHISCHEN GESELLSCHAFT FÜR HOLZFORSCHUNG SCHOSGWI
(LITERATURE CARD SERVICE OF THE AUSTRIAN ASSOCIATION FOR WOOD RESEARCH)**

Card service; 24 x; Ös 700,- in Austria, Ös 950,- elsewhere; 1949.-

Dokumentationsstelle des Österreichischen Holzforschungsinstitutes, A-1030 Wien, Arsenal-Objekt 212, Austria.

Dokumentationsstelle des Österreichischen Holzforschungsinstitutes, A-1030 Wien, Arsenal-Objekt 212, Austria.

Mechanical and chemical wood technology, including cellulose and paper.

4.000 references produced. 3.600 abstracts in GE published. Titles in original language and GE.

Output arranged by subject (ODC). 2 keywords.

Controlled vocabulary.

Input source: 440 primary journals.

Cumulative data base: 310.000 references.

Additional services: retrospective retrieval, full-size copies.

SELECTED BIBLIOGRAPHY OF ALGAE

SELBIADA

Journal; 1 x; \$ Can. 15,-; 1952 –

Nova Scotia Research Foundation, P.O. Box 790, Dartmouth, N.S., Canada.

Algae, marine and freshwater.

1.300 title citations. Titles in original language and/or EN.

Output arranged by subject (own classification).

Author index, annually.

Input source: 120 primary journals; 90% from secondary sources.

**SELSKOYE KHOZYAISTVO. SISTEMATICHESKIY UKAZTEL STATEI V
INOSTRANNYKH ZHURNALAKA**

SELKHSMO

(AGRICULTURE. CLASSIFIED INDEX OF ARTICLES FROM FOREIGN JOURNALS).

Journal; 12 x; Roubles 6,-; 1952 –

Tsentralnaya nauchnaya selskokhozyaistvennaya biblioteka (VASKHNIL) (Central Scientific Agricultural Library). All-Union Lenin Academy of Agricultural Sciences. Orlikov per 3 corpus B, Moscow-107139, USSR.

Agriculture in general.

50.000 references produced, 25.000 title citations published. Titles in original language and RS.

Output arranged by subject (own classification).

Input source: 2000 primary journals.

Additional services: retrospective retrieval, full-size and microcopies, library loans, translations.

**SELSKOKHOZYAISTVENNAYA LITERATURA SSSR. SISTEMATICHESKIY UKAZATEL
(AGRICULTURAL LITERATURE OF THE USSR. CLASSIFIED INDEX)**

SELLISMO

Journal; 12 x; Roubles 15,-; 1948 –

Tsentralnaya Nauchnaya Selskokhozyaistvennaya Biblioteka (VASKHNIL) Scientific Central Agricultural Library). All-Union Lenin Academy of Agricultural Sciences. Orlikov per. 3, Corpus B, MOSCOW-107139, USSR.

Agriculture in general (excluding food science and nutrition).

100.000 references produced, 81.000 abstracts in RS published. Titles in BE, RS or UK.

Output arranged by subject (own classification and UDC)

Geographical and author index, 6-monthly.

Input source: 450 primary journals (USSR only).

Additional services: retrospective retrieval, full-size and microcopies, library loans.

SELECTED WATER RESOURCES ABSTRACTS

SELWARWA

Journal; Computer print-out; Magnetic tapes; 24 x; \$ 22,- in USA, \$ 27,50 elsewhere; 1968 –

Water Resources Scientific Information Center, Department of the Interior, Washington, D.C. 20003, USA.

Published by National Technical Information Service, Springfield, Virginia 22151, USA.

Irrigation, plant and soil water relations, soil and water conservation, drainage, water pollution, water resources development.

19.000 references produced, 16.000 abstracts in EN published, including 3.500 abstracts of AGRIS interest. Titles in original language and EN. Author addresses.

Output arranged by subject (own classification).

Subject index (alphabetical, 15 keywords) and author index, each issue and annually. Controlled vocabulary.

Input source: 500 primary journals, 10% from secondary sources.

Cumulative data base: 40.000 references. Computerized.

Additional services: retrospective retrieval.

SERIE REFERENCIA
(REFERENCE SERIES)

SERREFSA

Irregular; free; 1971 -

Centro Latinoamericano de Documentacion Economica y Social (CLADES), Comission Economica Para America Latina, Casilla 179-D, Santiago, Chile.

Social and economic aspects of agriculture in Latin America.

1.000 Title citations. Mini abstracts (10-15 keywords). Titles in original language and SP.

Output arranged by author and titles of documents.

Subject and author indexes, each issue. Controlled vocabulary (OECD).

Input source: primary literature from and about Latin America; 10% from secondary sources.

Cumulative data base: 1.500 references. Partly mechanized.

Additional services: full-size and microcopies, library loans, translations.

SOILS AND FERTILIZERS

SOIFERHA

Journal; 6 x; £ 14,- in CAB-associated countries, £ 35,- elsewhere; 1938 -

Commonwealth Bureau of Soils, Rothamsted Experimental Station, Harpenden, Herts, UK. Unit of Commonwealth Agricultural Bureaux, Farnham Royal, Slough SL2 3BN, UK.

Published by Commonwealth Agricultural Bureaux, Farnham Royal, Slough SL2 3BN, UK.

Soils; fertilizers; plant nutrition; tillage and soil cultivation.

5.300 abstracts in EN and 100 title citations. Titles in EN. Author addresses.

Output arranged by subject (own classification).

Subject index (alphabetical, 4 keywords) annually. Author index, each issue and annually. Controlled vocabulary.

Input source: 1.750 primary journals, 5% from secondary sources.

Cumulative data base: 140.000 references. Computerized 1973.

Additional services: retrospective retrieval, full-size and microcopies, library loans.

SPORT FISHERY ABSTRACTS

SPOFIANA

Journal; 4 x; free; 1955 -

Sport Fishery Abstracts, U.S. Dept. of the Interior, Bureau of Sport Fisheries and Wildlife, General Delivery-Narragansett Post Office Building, Narragansett, Rhode Island 02882, USA.

Fishery biology and related subjects.

1450 abstracts in EN. Titles in original language and EN. Author addresses.

Output arranged by numerical sequence.

Subject index (alphabetical, 5 keywords) and author index, each issue, annually and 5-yearly.

Input source: 175 primary journals, 5% from secondary sources.

Cumulative data base: 14.200 references. Translations from RS into EN.

**STATION DE RECHERCHES DE LUTTE BIOLOGIQUE ET DE BIOCOENOTIQUE
(STATION FOR RESEARCH ON BIOLOGICAL AND BIOCOENOTIC CONTROL)**

STARELLA

No publication issued. In-house data base only.

Institut National de la Recherche Agricole (INRA), La Minière 78 – Versailles, France.

Agricultural entomology; pathology of insects; control of crop-destroying insects; biological control; animal ecology.

400 title citations produced. Mini abstracts. Titles in FR. Author addresses.

Input source: 50 primary journals; 30% from secondary sources.

Cumulative data base: 16.000 references.

LA SUCRERIE BELGE

SUCBELTI

**Documentation Section published jointly with Sugar Industry Abstracts (see SUGINATI)
(BELGIAN SUGAR REFINERY)**

Journal; 12 x; FB 1.500.- 1873–

Raffinerie Tirlemontoise S.A. – Bureau de la Documentation Technique, Aandozenstraat 1, B-3300 Tienen, Belgique.

Sugar beet culture.

600 abstracts in FR. Titles in FR. Author addresses.

Output arranged by subject (own classification).

Subject and author indexes, annually.

Input source: 150 primary journals.

Mechanized.

Additional services: full-size copies.

SUDENE-BOLETIN DE RECURSOS NATURALS

SUDENERE

(SUDENE - BULLETIN OF NATURAL RESOURCES. CURRENT BIBLIOGRAPHY OF THE NORTHEAST)

Journal; 4 x; 1961 –

Superintendencia do Desenvolvimento do Nordeste, Edificio JK, 9^o. Andar, Recife, PE-Brazil.

Geology; botany; zoology; engineering; agriculture.

Abstracts in PT. Titles in PT.

Output arranged by subject (UDC).

Input source: primary literature concerning the Northeast of Brazil.

Additional services: library loans.

SUGAR INDUSTRY ABSTRACTS**SUGINATI**

Published jointly with Bulletin d' Information (see BULINFIT) in 'La Sucrierie Belge'.

Journal; 12 x; FB 1.500,-, 1939 -

Tate & Lyle Refineries Ltd., Technical Information Department, Plaistow Wharf, London E16, UK and Raffinerie Tirlemontoise S.A., Bureau de la Documentation Technique, Aandorenstraat 1, B-3300 Tienen, Belgium.

Published by La Sucrierie Belge, P.B. 3, B-3300 Tienen 1, Belgium.

Factory processing and refining of beet and cane sugar.

1.550 abstracts in EN. Titles in EN. Author addresses.

Output arranged by subject (own classification).

Subject index (alphabetical, 3-5 keywords), patent and author indexes, annually. Controlled vocabulary.

Input source: 400 primary journals.

Cumulative data base: 11.500 references available on cards for FB. 150.000. Index compilation computerized.

Additional services: retrospective retrieval, full-size copies.

SULPHUR INSTITUTE JOURNAL**SULINJWA**

Journal; 4 x; free; 1967 -

The Sulphur Institute, 1725 K Street, N.W. Washington D.C. 20006, USA, and Lynwood House, 24-32 Kilburn High Road, London NW6 5UT, UK.

Sulphur: agricultural, biological, chemical and industrial aspects.

650 title citations published, including 450 of AGRIS interest. Titles in EN.

Output arranged by subject (own classification).

**TARJETAS DE RESUMEN SOBRE LITERATURA DE YUCA
(ABSTRACT CARDS ON CASSAVA LITERATURE).****TARRELCA**

Card service; 12 x; 1972 -

Centro Internacional de Agricultura Tropical (CIAT), P.O. Box 67-13, Cali, Colombia.

Cassava: production, physiology, breeding, soils, biochemistry, animal and human nutrition, industry, etc.

Abstracts in SP. Titles in EN and SP.

Output arranged by subject and author.

Subject index (KWIC). Controlled vocabulary.

Input source: 100 primary journals, 25% from secondary sources. Partly mechanized.

Additional services: SDI, retrospective retrieval, full-size and microcopies.

TECHNICAL INFORMATION SERVICE - AGRICULTURAL ABSTRACTS

TECINSGR

Journal; 12 x; £ 12,60 in UK, £ 21,- elsewhere; 1930 –

Aynsome Laboratories Ltd., Kentsford Road, Grange-over-Sands, Lancashire, UK.

Nutrition of all farm animals; veterinary medicine; production, processing and feeding of animal feed ingredients and roughages.

2.000 references produced, 400 abstracts in EN published. Titles in EN.

Output arranged by subject (own classification).

Subject index (alphabetical; 3 keywords), annually.

Input source: 100 EN primary journals, 5% from secondary sources.

Additional services: full-size copies.

**TESIS DE GRADO Y POST GRADO DE INGENIEROS AGRONOMOS DE BOLIVIA
(GRADUATE AND POST-GRADUATE THESES OF AGRONOMY GRADUATES OF BOLIVIA).**

TESGRPLA

Printed bibliography; 2-yearly; \$ BV 12,-; 1970 –

Sociedad de Ingenieros Agronomos de Bolivia, La Paz, Bolivia.

Food technology and industry.

127 abstracts in SP. Titles in SP.

Output arranged by author.

Subject index (alphabetical), each issue.

Input source: Bolivian dissertations.

Additional services: translations from EN and GE into SP.

TOBACCO ABSTRACTS

TOBABSRA

Journal; 12 x; \$ 7,- in USA, \$ 10,- elsewhere.

Tobacco Literature Service, D.H. Hill Library, North Carolina State University, Raleigh N.C. USA.

Tobacco agronomy, production, curing, manufacturing technology and economics.

2850 abstracts in EN. Titles in EN.

Output arranged by subject (own classification) and author.

Subject index (alphabetical, 4 keywords) and author index, annually.

Input source: 1.000 primary journals.

Index compilation computerized.

Additional services: SDI, retrospective retrieval, full-size copies, library loans, translations.

TOXICITY BIBLIOGRAPHY**TOXBIBBE**

Journal; 4; \$ 14,- in USA, \$ 17,- elsewhere; 1967 –

National Library of Medicine, Specialized Information Services, 8600 Rockville Pike, Bethesda, Md. 20014, USA.

Published by Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402, USA.

Toxicity and adverse effects of and poisoning by drugs and chemicals in humans and animals.

10.000 title citations. Mini abstracts. Titles in EN.

Output arranged by subject (own classification).

Subject index (Medical Subject Heading, MESH) and author index, each issue. Controlled vocabulary.

Input source: 2.500 primary journals (input derived mainly from current citations in the MEDLARS file).

Cumulative data base: 60.000 references. Computerized.

Additional services: retrospective retrieval, full-size copies, library loans.

TROPICAL ABSTRACTS**TROABSAM**

Journal; Card service; 12 x; Dfl 100,-; 1946-, in English 1953 –

Royal Tropical Institute, Department of Agricultural Research, Advisory and Documentation Division, 63, Mauritskade, Amsterdam-0, The Netherlands.

Agriculture of tropical and subtropical regions.

7.000 abstracts in EN. Titles in original language and EN. Author addresses.

Output arranged by subject (UDC).

Subject index (1,3 keywords), geographical, taxonomic and author indexes, annually.

Input source: 1.600 primary journals.

Cumulative data base: 380.000 references.

Additional services: SDI, retrospective retrieval, full-size copies, library loans.

**DOKUMENTATION TROPISCHER PFLANZENSCHUTZ
(DOCUMENTATION ON TROPICAL PLANT PROTECTION)****TROPFLBE**

No publication issued. In-house data base only.

Informationszentrum für tropischen Pflanzenschutz, Biologische Bundesanstalt für Land- und Forstwirtschaft, D-1000 Berlin 33, Königin-Luise-Str. 19, F.R. Germany.

Phytopathology and plant protection in tropical and sub-tropical agriculture.

4.000 abstracts in EN or GE or title citations. Mini abstracts. Titles in original language and GE.

Output arranged by subject (own classification)

Input source: 250 primary journals, 15% from secondary sources.

Cumulative data base: 15.000 references.

Services: retrospective retrieval, full-size copies, information about research workers and institutions.

TROPICAL PRODUCTS INSTITUTE, ACCESSIONS BULLETIN

TROPRILO

Journal; Card service; 24 x; free; 1958 -

Tropical Products Institute, 56-62 Gray's Inn Road, London WC1X 8LU, UK.

Tropical and subtropical agriculture (more emphasis is given to post-harvest aspects than to cultivation).

24.200 abstracts in EN. Titles in EN.

Output arranged by subject (own classification).

Subject index (alphabetical, 1 keyword), each issue. Controlled vocabulary.

Input source: 1500 primary journals, 5% from secondary sources.

Cumulative data base: 'Technical Index' with 640.000 references.

Additional services: SDI, retrospective retrieval, bibliographies on request, full-size copies, library loans, translations from FR, GE, IT, PT, SP, RS into EN.

**UGESKRIFT FOR AGRONOMER OF HORTONOMER.
AFDELING UDENLANDSK FAGLITTERATUR.**

UGEAGHTU

(AGRONOMISTS AND HORTICULTURALISTS WEEKLY. SECTION FOREIGN SUBJECT LITERATURE)

Journal; 12 x; DKr. 30,-; 1954 -

Landbrugets Informationskontor, Tune, 2670 Greve Strand, Denmark.

Agriculture in general.

400 abstracts in DA. Titles in original language and DA.

Output arranged by subject (own classification).

Subject index annually.

Input source: 50 DA, EN, GE, NO, SS primary journals.

Additional services: full-size copies, library loans.

**UIT DE PLUIMVEEPERS
(FROM THE POULTRY PRESS).**

UITPLUBE

Journal; 12 x; Dfl 8,50 in the Netherlands, Dfl 10,50 elsewhere; 1946 -

Bibliotheek Instituut voor Pluimveeonderzoek 'Het Spelderholt', Beekbergen, The Netherlands.

All aspects of poultry, rabbits and fur-bearing animals.

2.875 abstracts in NE and 2.730 title citations. Titles in original language and/or NE.

Output arranged by subject (own classification).

Input source: 400 primary journals, 40% from secondary sources.

Cumulative data base: 150.000 references.

Additional services: SDI, full-size copies, library loans.

VDI - FACHDOKUMENTATION REINHALTUNG DER LUFT SELECTA
(SELECTIVE SUBJECT DOCUMENTATION ON AIR PURIFICATION)

VDIRELDU

Journal; 12 x; DM 460,- in F.R. Germany, DM 500,- elsewhere; 1969 -

VDI-Dokumentationsstelle, Fachdokumentation Reinhaltung der Luft, D-4000 Düsseldorf, Graf-Recke-Str. 84, Postfach 1139, F.R. Germany.

Published by VDI-Verlag GmbH (address as above).

Air pollution and its effects on soils, plants and animals.

Abstracts in GE. Titles in original language. Author addresses.

Output arranged by subject (own classification) and titles of primary journals.

Subject index in preparation (PERMUFAC index, including keywords, geographical terms, date and source of pollution). Author index, annually.

Input source: 100 primary journals, 10% from secondary sources.

Mechanized, index compilation computerized.

Additional services: retrospective retrieval, full-size and microcopies, library loans.

THE VETERINARY BULLETIN

VETBULWE

Journal; 12 x; £ 14,- in CAB-associated countries, £ 35,- elsewhere; 1931 -

Commonwealth Bureau of Animal Health, New Haw, Weybridge, Surrey, UK.

Unit of Commonwealth Agricultural Bureaux, Farnham Royal, Slough SL2 3BN, UK.

Published by Commonwealth Agricultural, Farnham Royal, Slough, SL2 3BN, UK.

Veterinary science and closely related fields of other biological sciences, including microbiology, general parasitology, general pathology, zoonoses, biochemistry.

6.700 abstracts in EN. Titles in original language and EN (from 1972). Author addresses.

Output arranged by subject (own classification).

Subject index (alphabetical, 2,5 keywords), annually. Author index, each issue and annually.

Input source: 828 primary journals.

Computerized 1972.

Additional services: SDI, retrospective retrieval, annotated bibliographies, full-size copies, library loans, translations into EN.

VETDOC

VETDOCLO

Journal; 24 x; £ 1125,-; 1968 -

Card service; Microforms; Machine punched cards; Magnetic tapes.

Derwent Publications Ltd., Rochdale House, 128 Theobalds Rd, London WC1X 8RP, UK.

All aspects of the use of drugs and vaccines in veterinary medicine; poisoning and pathogenic organisms in animals; animal nutrition (special requirements, feed additives and compound feedstuffs only); artificial insemination (especially as related to sperm preservation).

9.350 abstracts in EN. Titles in original language (for Western European languages) or EN. Author addresses.

Output arranged by subject (own classification) and titles of primary journals.

Subject index (alphabetical, KWIC, 7 keywords), each issue. Author index, annually. Controlled vocabulary.

Input source: 126 primary journals.

Cumulative data base: 17.200 references. Data processing manual, mechanized and computerized.

**DIE VETERINÄRMEDIZIN - GESAMMELTE REFERATE AUS ALLEN GEBIETEN DER
TIERHEILKUNDE**
(VETERINARY MEDICINE - COLLECTED ABSTRACTS FROM ALL FIELDS OF ANIMAL THERAPY)

VETGERKO

Journal; 6x; DM 121,- ; 1948 –

Terra-Verlag, Neuhauser Strasse 21, 7750 Konstanz, F.R.Germany.

Animal breeding and genetics; animal nutrition; veterinary medicine and hygiene.

2.500 abstracts in GE. Titles in GE.

Output arranged by subject (own classification).

Subject index (alphabetical) and author index, annually.

Input source: 85 primary journals.

Additional services: retrospective retrieval, full-size copies.

VETERINARIA SUECANA

VETSUEST

**Sections: 1) Svensk veterinärbibliografi - Annual Swedish veterinary bibliography.
2) List of publications from the Royal Veterinary College of Sweden.
3) List of publications from the National Veterinary Institute.**

Journal; 1 x; exchange; 1969 –

Royal Veterinary College, Library, S-104-05 Stockholm 50, Sweden.

Veterinary medicine.

1.200 title citations. Titles in original language and/or EN. Author addresses.

Output arranged by research units and author.

Input source: 75 primary journals (publications of Swedish authors only).

Cumulative data base: 8.200 references.

Additional services: full-size copies, library loans.

VIROLOGY ABSTRACTS

VIRABSLO

Journal; 12 x; £ 30,- in Europe, \$ 150.- elsewhere; 1968 -

Information Retrieval Limited, 1 Falconberg Court, London W1V 5FG, UK.

Virology; virus diseases of plants; virus diseases of animals and man.

1.800 abstracts in EN and 800 title citations. Titles in original language and/or EN.

Output arranged by subject (own classification).

Subject index (alphabetical, 5 keywords) annually. Index of virus names and author index, each issue.

Input source: 2.000 primary journals.

Mechanized and computerized.

VIROLOGICAL ABSTRACTS**VIRABSWA**

Card service; 4-6 x; DF1 5,- to members of the Netherlands Circle of Plant Virology, \$ 15,- to non-members for 1st set, \$ 5,- for each additional set; 1964 -

Netherlands Circle of Plant Virology, c/o Dr. A.B.R. Beemster, IPO, Binnenhaven 12, Wageningen, The Netherlands.

Applied and fundamental plant virology; general virology; biochemistry of viruses.

1.050 abstracts in EN, GE or FR. Titles in original language and EN. Author addresses.

Output arranged by author.

Input source: 200 primary journals, 17% from secondary sources.

Cumulative data base: 6.500 references.

**VITIS - DOKUMENTATION DER WEINBAUFORSCHUNG
(VITIS - DOCUMENTATION OF VITICULTURAL RESEARCH)****VITISWSI**

Journal; 4 x; DM 12,- for the abstract section only, DM 24,- for journal plus abstract section; 1963 -

Dokumentation der Weinbauforschung, Bundesforschungsanstalt für Rebenzüchtung Geilweilerhof, D-6741 Siebeldingen, Pfalz, F.R. Germany.

Viticulture and oenology, including vine breeding, physiology, biochemistry and protection; microbiology of wine.

2.000 references produced. 340 abstracts in EN, FR or GE plus 260 title citations published. Mini abstracts (4 keywords in EN, FR and GE). Titles in original language, GE and EN or FR. Authors addresses.

Output arranged by subject (own classification)

Subject index (alphabetical, in EN, FR and GE) and author index, each issue and annually. Controlled vocabulary.

Input source: 550 primary journals.

Cumulative data base: 15.000 references.

Additional services: retrospective retrieval.

WATER POLLUTION ABSTRACTS**WATPOAST**

Journal; 12 x; £4,25; 1927 -

Water Pollution Research Laboratory, Elder Way, Stevenage, Herts., SG1 1TH., UK.

Published by Her Majesty's Stationery Office, P.O. Box 569, London SE1, UK.

Conservation of water resources; disposal of sewage and industrial effluents; effects of water pollution.

2.500 abstracts in EN. Titles in EN.

Output arranged by subject (own classification).

Subject index (alphabetical, 3-4 keywords) and author index, each issue and annually. Controlled vocabulary.

Input source: 300 primary journals, 10% from secondary sources.

WATER RESOURCES ABSTRACTS**WATREAU**

Journal; 12 x; \$ 120.-; 1965 –

American Water Resources Association, P.O. Box 434, Urbana, Illinois 61801, USA.

Hydrology, water cycle, precipitation, snow, ice, frost, evaporation, stream flow, ground water, limnology, water and plants, erosion and sedimentation, chemical processes, water conservation in industry and agriculture, etc.

2.400 abstracts in EN published, 360 of AGRIS interest. Mini abstracts. Titles in original language.

Output arranged by subject (own classification).

Input source: 300 primary journals, 50% from secondary sources.

Mechanized.

Additional services: translations from EN into FR, JA and KO.

WEED ABSTRACTS**WEEABSYA**

Journal; 6 x; £ 8,- in CAB-associated countries; £ 20,- elsewhere; 1952 -

ARC Weed Research Organization, Begbroke Hill, Yarnton, Oxford, OX5 1PF, UK.

Published by Commonwealth Agricultural Bureaux, Farnham House, Farnham Royal, Slough, SL2 3BN, UK.

Control of weeds in the presence or absence of crops; weed biology; herbicide chemistry and properties; herbicide/plant and herbicide/soil interactions; herbicide residues and their determination; environmental aspects.

2.750 abstracts in EN plus 150 title citations. Titles in EN. Author addresses.

Output arranged by subject (own classification).

Subject index (alphabetical, 13 keywords) and index of chemicals, annually. Species and author indexes, each issue and annually. Controlled vocabulary.

Input source: 508 primary journals, 5% from secondary sources.

Cumulative data base: 40.000 references. Computerized 1973.

Additional services: retrospective retrieval, annotated bibliographies, full-size copies, library loans.

**DIE WEINWISSENSCHAFT
(WINE SCIENCE)****WEINWIWI**

Journal; 6 x; DM 24,-

Published by Zeitschriftenverlag Dr. Bilz und Dr. Fraund, D-62 Wiesbaden-1, Abeggstrasse 2, F.R. Germany.

Viticulture and oenology.

70 abstracts in GE plus 250 title citations. Titles in original language and GE.

Output arranged by author.

Author index, annually.

Input source: 40 primary journals.

WORLD AGRICULTURAL ECONOMICS AND RURAL SOCIOLOGY ABSTRACTS (WAERSA)**WORAGEOX**

Journal; 4 x; £. 9,- in CAB-associated countries, £. 22,-elsewhere; 1959 -

*Commonwealth Bureau of Agricultural Economics, Dartington House, Little Clarendon Street, Oxford OX1 2HH, UK.
Unit of Commonwealth Agricultural Bureaux, Farnham Royal, Slough, SL2 3BN, UK.*

Published by Commonwealth Agricultural Bureaux, Farnham Royal, Slough SL2 3BN, UK.

Agricultural economics, including policy, supply, demand and prices; marketing and distribution; international trade; finance and credit; economics of production; cooperation; education and training; rural sociology.

5.500 abstracts in EN. Titles in original language and EN. Author addresses.

Output arranged by subject (own classification).

Subject index (alphabetical; 4 keywords) and author indexes, each issue and annually. Geographical index, each issue. Controlled vocabulary.

Input source: 1.076 primary journals, 15% from secondary sources.

Cumulative data base: 48.360 references. Computerized 1973.

Additional services: SDI, retrospective retrieval, annotated bibliographies, full-size copies, library loans, translations from FR, GE into EN and CH.

**WORLD FISHERIES ABSTRACTS. RESUMES ANALYTIQUES DES PECHEES
MONDIALES. EXTRACTOS DE LA PESCA MUNDIAL****WORFIARO**

Card Service; 4 x; \$ 4,-; 1950 -

Food and Agriculture Organization of the United Nations (FAO), via Terme di Caracalla, 00100 Roma, Italy.

Fisheries technology and related industries.

300 abstracts in EN, FR and SP and 400 title citations. Titles in EN, FR and SP.

Output arranged by subject (UDC and own classification).

Subject and author indexes, each issue.

Input source: 100 primary journals.

**WORLD INDEX OF SCIENTIFIC TRANSLATIONS
LIST OF TRANSLATIONS NOTIFIED TO THE EUROPEAN TRANSLATIONS CENTRE****WORINSDE**

Journals; 12 x; \$ 50,- in ETC member countries, \$ 75.- elsewhere; 1967 -

European Translations Centre, Doelenstraat 101, Delft - The Netherlands

460 title citations. Titles in European languages.

Output arranged by subject (COSATI subject catalogue) and titles of primary journals scanned.

Citation index of periodicals from which translated articles have been derived or in which translations appear.

Input source: 100% from secondary sources; East-European and Oriental languages.

Partly mechanized and computerized.

Additional services: information, translations.

1) of AGRIS interest

WORLD'S POULTRY SCIENCE JOURNAL

WORPOSLO

Journal; 4 x; \$ 6,-; 1945 –

World's Poultry Science Association, 17 West Side, Watford Way, London NW4 4XD, UK.

Poultry Science and industry.

1.900 title citations. Titles in EN. Author addresses.

Output arranged by subject (own classification) and author.

Subject index (alphabetical, 2-3 keywords) and author index, annually.

Input source: 20% from secondary sources.

**ZEITSCHRIFT FÜR AGRARGESCHICHTE UND AGRARSOZIOLOGIE
(JOURNAL OF AGRARIAN HISTORY AND AGRARIAN SOCIOLOGY)**

ZEIAGAST

Journal; 2 x; DM 30,-; 1952 -

Gesellschaft für Agrargeschichte. Prof. Dr. G. Franz, D-7 Stuttgart 70, Feuerreiterweg 8, F.R. Germany.

Published by Verlag der Deutschen Landwirtschaftsgesellschaft (DLG), D-6 Frankfurt 1, Rüterweg 16, F.R. Germany.

Agricultural history and rural sociology.

400 abstracts in GE. Titles in GE.

Output arranged by subject.

Author index, annually and 20-yearly.

Input source: 60 primary journals (Europe only).

ZEITSCHRIFT FÜR LEBENSMITTEL-UNTERSUCHUNG UND -FORSCHUNG

ZEILEFR

Sections: 1) Referate, 2) Beilage Gesetze und Verordnungen

(JOURNAL FOR FOOD STUDY AND RESEARCH, Sections: 1) Abstracts, 2) Laws and Decrees)

Journal; 18 x; DM 408,-; 1898 –

Zeitschrift für Lebensmittel-Untersuchung und -Forschung, D-8050 Freising, Vöttinger Strasse 45, F.R. Germany.

Food analysis, chemistry and bacteriology; laws, regulations and ordinances relating to food.

Ca.3.000 abstracts in GE or EN. Titles in original language and GE.

Output arranged by subject (own classification).

Subject index (alphabetical).

Input source: 140 primary journals; less than 5% from secondary sources (East Europe mainly).

**ZEITSCHRIFT FÜR DIE ZUCKERINDUSTRIE, DOKUMENTATION
(JOURNAL FOR THE SUGAR INDUSTRY. DOCUMENTATION)**

ZEIZUCBE

Journal; 12x; DM 60.-; 1957 –

Published by Verlag Dr. Albert Bartens, D-1000 Berlin 38, Lückhoffstr. 16, F.R. Germany.

Agronomy of sugar beet and sugar cane, sugar production.

750 abstracts in GE. Titles in original language and GE.

Output arranged by subject.

Subject index (3 keywords), geographical and author index, annually. Controlled vocabulary.

Input source: 80 primary journals, 5% from secondary sources.

Cumulative data base: 10.000 references.

Additional services: full-size copies, translations.

ZOOLOGICAL RECORD

ZOORECLO

Journal and microforms; 1 x ; £ 125.-; 1864 –
Magnetic tapes (1973 onward).

The Zoological Society of London, Regents Park, London NW14RY, UK.

All aspects of zoology, excluding references to literature on agricultural and economic aspects of insects, birds and mammals.

35.000 title citations relating to the 1969 literature published in 1972, partly of AGRIS interest. Titles in EN.

Output arranged by author.

Subject index (alphabetical), geographical, paleontological, taxonomic, and author index, annually.

Input source: 6.000 primary journals.

Computerized.

INDEXES

INDEX 1

Identity of Services by Country of Publication

Argentina
BIBARABU
BOLBIBRE
REVFOABU

Australia
AUSSCIME
CSIABSME

Austria
INTDOEWI
MITKLOKL
SCHAGRWI
SCHOSGWI

Belgium
BIBINEBR
BULBIIWE
BULINFTI
SUCBELTI
SUGINATI

Bolivia
BIBAGBLA
TESGRPLA

Brazil
AMABIBRI
BIBBRBRI
BIBBRCRI
BIBBRZRI
BIBCONRI
BOLDOCRI
BRAACURI
LISBIBBA
RESTESPI
SUDENERE

Bulgaria
BYUKADSO
BYUKAGSO

BYUKAVSO
BYUSIRSO
BYUSIZSO
REFBYBSO

Canada
CANADIOT
FORFICOT
SELBIACA
Colombia

INDAGCME
TARRELCA

Czechoslovakia

AGRLICPR
BULMECPR
CARSEWBR
CESLEBPR
DOKL...PR
DOKLFYPR
DOKLOPPR
DOKLRVPR
DOKLVMPR
DOKLZPPR
DOKLZTPR
DOKLZVPR
LISINSPR
MEZMYBPR
PRELEMPR

Denmark
FORHAIKO
NYTBIOHO
UGEAGHTU

France
ANILARPA
BIBAGRAN
BIBANSLY
BIBSIHPA
BOIFOTNO
BULANEPA

BULBICPA
BULBILPA
BULBIVLY
BULDOCPA
BULLIBPA
BULSIAPA
BULSIGJO
BULSIGPA
BULSILNO
BULSIMPA
BULSINPA
BULSIPNO
BULSIRPA
BULSISVE
CAFGATPA
CHAAGRPA
CONRURPA
COTFITPA
DOCAGRAM
DOCPEVE
ETURURPA
FICANSVE
FICSIANO
FICSIEPA
FRUOUMPA
INDBIBTO
ISORAACA
OLEREIPA
REVELMMA
REVFRCPA
STARELLA

Finland
HELYLMHE

F. R. of Germany

AGRBIBOF
BERBIBHE
BETNALBO
BIBFOHRE
BIBHAUST
BIBKEKLE
BIBPFLBE
DOCGEOBO

DOKABLSE
DOKUMLBO
DOKWASDU
FORUMSFR
HAUWISST
HINVEGGE
IDKAGGST
IDKAGLBO
IDKBEAST
IDKBOBBR
IDKLEVMU
IDKTIPST
INFGARHA
INFGETDE
INFGRFFR
INFVERBE
INFVETHA
INFWEIFR
INSZUCGO
IWLKURKO
KALSALHA
KARDOEGI
KARLABFR
LANBAUBR
LANZEIBR
LITBULBH
LITWAABE
MILCHWKI
MITDOBFR
MITDOZFR
MONBRABE
REFRAUBO
SAUSCHMU
SCHLAEDU
TROPFLBE
VDIRELDU
VETGERKO
VITISUSI
WEINWIWI
ZEIAGAST
ZEICUCBE
ZEILLEFFR

Hungary

AGRSCZBU
BIBHIRBU
HUNAGRBU
MAGMEBBU
MUSLAEBU
MUSLAGBU
MUSLAKBU

India

BIBINFBA
BIBIRDNE
CSMDOLBH
FAIABSNE
INDAGIPA
INDSCADE

International

ACCBULLO
AFRSOSBA

AMEJOEDA
ANIBRAED
APIABSCH
AQUSCFRO
ARCLANCA
ARTSELBR
BIBAGATU
BIBAGCTU
BIBAGLTU
BIBAGNTU
BIBESPTU
BIBFRITU
BOLBIATU
BOLBIBME
BOLCEPRI
BOLIFTBU
BULBIIAN
BULBIIPA
BULEUCBR
BULINCPA
BULINIPA
BULOIVPA
CAFECATU
CATCORTU
CHIVETZO
CONILTU
DAISCASH
FAODOCRO
FIECRAHU
FOOSCTSH
FORABSOX
HELABASA
HELABBSA
HERABSHU
HORABSKÉ
HORECNHA
INDLATTU
INDWETWE
INFEPSRI
INTBIRMA
INTBUDBR
INTLADGE
INTNUIWI
JOUAMOCH
LITCACTU
MAIZMATU
MARSCCRO
NUTABRAB
PHOAGRPA
PLABRACA
PROINSAS
REVINCTU
REVMEVKE
REVPLPKE
SERREFSA
SOIFERHA
VETBULWE
WEEABSYA
WORAGEOX
WORFIARO
WORINSDE
WORPOSLO

Italy

RIVAGSFI

Ireland

PEAABSKI

Japan

CURBISTO
NORTOSTO

Mexico

BIBNAAME

Morocco

INDRETRA

Netherland

AGRMERAM
ASHGUBAM
ECOABSHA
EXMEO5AM
EXMEI7AM
EXME29AM
EXME30AM
EXME37AM
EXME46AM
KORBEVHA
LANASEWA
LANBOWWA
LITATTAL
LITFRAHA
PUDBULWA
QUALITWA
TROABSAM
UITPLUBE
VIRABSWA

Norway

LITSSFFY
MEIDETOS

Pakistan

PAKSCAKA

Peru

BIBAGPLI

Poland

POLECBWA
PRZDOCPO

Portugal

BIBCAFLI
REORDELU

Rumania

REVREFBU

South Africa

AGRRESPR
CSIRREPR
CURLIWPR

South Korea

KORSCTSE

Spain

GRAACESE
INDBIBMA
RESARCMA

Sweden

FORFOIST
FRAKALLU
LANKOLUP
POLLOOST
VETSUEST

Switzerland

ATOMABZU
BIBSCNBE (*)

Thailand

LISSCTBA

Turkey

KEYTUSAN

United Kingdom

ABSAGHBE
ABSCUSLE
ACRABSLO
ANAABSLO
BIBINMLO
BIBREPCA
BIORETBI
BORAGRLO
BSBABSLO
CENPAILO

CURADPOX
CURAWADU
ENTABSLO
FARBUDKE
FLOMIBRI
GENABSLO
GEOABSNO
INTABBOX
INTSUJHI
IVRSLAWH
IVRSSAWH
JOUANEON
JOUINBLO
LANREISU
METOFMBR
MICABALO
MICABBLO
MICABLO
PACABSLE
PAPBOALE
PESTDOL
REVAEALO
REVAEBLO
SULINJWA
TECINSGR
TOXBIBBE
TROPRILO
VETDOCLO
VIRABSLO
WATPOAST
ZOORECLO

Uruguay

BIBAGUMO

USA

ABSIAWNE
ABSENTPH
ABSHEEPH
ABSMYCPH
AIRPOARE
AIRPOTPE
AMEBIAWA
BIBAGRBE

CONREELO
COTGRRLO
BIOABSPH
BIOINDPH
BULTOBNY
CALFORBE
CHEABSCO
CLAABANB
COMFIAWA
CURCOAPH
CURINCNE
DISABSAN
FERABSMU
FOOBRNE
HEAASPCH
HYDATAUR
INDMEDBE
JOUAMCHV
METGEABO
NUCSAOA
OCEABSLA
PACBULDA
POLABSLA
RICJOUWA
SELWARWA
SPOFIANA
TOBABSRA
WATREAU

USSR

CENBIIMO
SELKHSMO
SELLISMO

Venezuela

AGRTRRMA
INDBIAMA

Yugoslavia

BIBJUCBE
BIOINFLJ
BULSCAZA

INDEX 2

Identity of services and Output in Relation to Subject Field

	A				
		MAGMEBBU	1600	REVREFBU	12
		FORFOIST	1550	PESTDOLLO	10
		BIBNAAME	1300	BIOINFLJ	06
Agriculture in general		BIBAGRBE	928		
(services covering the whole,		LISSCTBA	550	<i>Titre citations</i>	
of agriculture)		WORINSDE	460		
		HUNAGRBU	400	CURAWADU	50
<i>Abstracts</i>		LANKOLUP	400	BIOINFLJ	42
		PUDBULWA	378	NORTOSTO	27
BULSIGPA	45000	INDAGIPA	377	COMFIAWA	26
ISORAACA	11700	HELYLMHE	273	BIBARABU	19
BIOABSPH	9248	BIBSCNBE	213	BIBAGBLA	10
TROPRILO	3400	CSIRREPR	200	CONIILTU	10
DISABSAN	2200	AGRTRRMA	160		
NUCSCAOA	1200	BOLBIATU	140		
INTLADGE	1000	LANASEWA	92		
CSIABSME	1000	BIBAGCTU	76	C	
DOKUMLBO	900	REORDELU	68		
HUNAGRBU	600	BIBARABU	50	Agricultural research and	
LANBOWWA	580	BIBAGBLA	45	research methodology	
REVREFBU	520	BIBAGNTU	44		
CHAAGRPA	400	BIBAGLTU	38	<i>Abstracts</i>	
LANKOLUP	300	BOLBIBRE	34		
MELDETOS	269	MUSLAEBU	31	HORABSKE	579
FICANSVE	255	MUSLAGBU	30	CENBIIMO	500
UGEAGHTU	205	BOLDOCRI	27	TROPRILO	285
WATREAU	180	AGRSCZBU	18	REVREFBU	210
HAUWISST	175	BIBSIHPA	17	BIBINEBR	200
AGRRESPR	160	KORSCTSE	15	FAODOCRO	195
FAODOCRO	150	NORTOSTO	7	PESTDOLLO	90
LISSCTBA	130	KEYTUSAN	5	IDKAGLBO	73
BIBAGRAN	80	AMABIBRI		BULSCAZA	29
BETNALBO	53	BIBAGUMO		AGRRESPR	21
BIOINFLJ	43	BIBAGPLI		UITPLUBE	15
REVINCTU	40	BIBBRCRI		MUSLAEBU	12
KEYTUSAN	34	CANADIOT		REFBYBSO	12
MUSLAEBU	28	CURCOAPH		BIOINFLJ	11
BOLDOCRI	26	CURINCNE		DAISCASH	10
AMEJOEDA	21	INDBIAMA		AGRSCZBU	8
MUSLAGBU	21	INDLATTU		HORECNHA	8
ZEIZUCBE	19	INDAGCME			
JOUNBLO	18			<i>Titre citations</i>	
AGRSCZBU	17				
TECINSGR	11	B		NORTOSTO	315
RESTESPI				BIBAGCTU	54
INTABBOX		Agricultural literature,		BOLBIBRE	41
SUDENERE		documentation and library		BIBAGATU	32
		services		BIOINFLJ	30
<i>Titre citations</i>				LANZEIBR	30
		<i>Abstracts</i>		FICSIEPA	25
SELKHSMO	25000			BIBSCNBE	13
BIOABSPH	14071	SELLISMO	3305	BIBAGLTU	12
CENPAILO	8000	FAODOCRO	75	BOLDOCRI	11
BULSIMPA	5500	BETNALBO	59	CONIILTU	10
AUSSCIME	2124	LANBOWWA	42	UITPLUBE	10
BIBHAUST	1870	BIBINEBR	20	BULSCAZA	9
BIBJUCBE	1700	BOLBIATU	20	ETURURPA	8
				AGRSCZBU	7

D					
Agriculture of warm climates.		PUDBULWA	15	BIBAGNTU	41
Tropical agriculture		AGRSCZBU	5	CONIILTU	36
		BIOINFLJ	4	BIBAGATU	34
				BIOINFLJ	32
<i>Abstracts</i>		E2		BIBAGLTU	24
TROABSAM	3467			COMFIAWA	14
TROPRILO	2720	Geography of agriculture		AGRSCZBU	12
PESTDOLO	900	<i>Abstracts</i>		ETURURPA	11
GEOABSNO	200				
OLEREIPA	184			F2	
FAODOCRO	70			Extension and advisory work	
DAISCASH	40			<i>Abstracts</i>	
REVREFBU	8			IDKBEAST	200
SUDENERE				WORAGEOX	75
				FAODOCRO	50
<i>Titre citations</i>				BULSIRPA	30
FICSIANO	6000			REVREFBU	28
TROPFLBE	400			AGRSCZBU	7
LANREISU	319			BIOINFLJ	2
PUDBULWA	62	<i>Titre citations</i>			
RIVAGSFI	40			<i>Titre citations</i>	
BIBAGATU	36	BULSIAPA	2500	BIBAGCTU	66
BIBARABU	26	ETURURPA	51	INDAGIPA	63
BIBAGLTU	25	FICSIEPA	25	BIBAGATU	22
REORDELU	16	AGRSCZBU	5	BIOINFLJ	22
DAISCASH	10	DOCGEOBO		BIBAGNTU	20
				BIBAGLTU	16
		F		CONIILTU	10
		Agricultural education		AGRSCZBU	8
		<i>Abstracts</i>			
		DAISCASH	15	G	
		<i>Titre citations</i>		Agricultural administration and legislation	
		PUDBULWA	40	<i>Abstracts</i>	
		NORTOSTO	35	ZEILETER	3000
				PESTDOLO	250
E				IDKAGLBO	117
History and geography of agriculture				FAODOCRO	55
<i>Abstracts</i>				BETNALBO	47
GEOABSNO	75			REVREFBU	43
LANBOWWA	10			DAISCASH	25
				AGRSCZBU	13
				MUSLAEBU	12
				VITISWSI	8
				ETURURPA	2
				<i>Titre citations</i>	
				BULEUCBR	3500
				BIBAGRBE	1699
				BULSIAPA	1500
				NORTOSTO	334
				PROINSAS	61
				CURAWADU	50
				COMFIAWA	48
				BIBAGCTU	30
				BIBARABU	27
E1					
History of agriculture		F1			
<i>Abstracts</i>		Education, teaching			
IDKAGGST	600	<i>Abstracts</i>			
ZEIAGAST	300	IDKBEAST	300		
NORTOSTO	30	FAODOCRO	140		
REVREFBU	21	LANBOWWA	140		
ETURURPA	19	WORAGEOX	74		
FAODOCRO	15	BIBINEBR	50		
GEOABSNO	15	BULSIRPA	40		
BIOINFLJ	8	REVREFBU	35		
AGRSCZBU	5	TROABSAM	16		
		AGRSCZBU	13		
<i>Titre citations</i>		BIOINFLJ	7		
BIBHIRBU	6245	ETURURPA	4		
NORTOSTO	460	<i>Titre citations</i>			
FICSIEPA	25	CURAWADU	50		
ETURURPA	23	BIBAGCTU	46		
LANZEIBR	20				

REORDELU	24	ARTSELBR	110	PESTDOLO	45
INDAGIPA	15	FAODOCRO	105	BETNALBO	37
AGRSCZBU	12	GEOABSNO	100	GENABSLO	36
BIBAGATU	12	NORTOSTO	99	AGRSCZBU	30
CONIILTU	12	HORECNHA	95	BIOINFLJ	25
MUSLAEBU	12	AGRSCZBU	60	NORTOSTO	22
VITISWSI	11	DAISCASH	50	KEYTUSAN	15
ETURURPA	10	PESTDOLO	30	MELDETOS	13
		MUSLAEBU	24	MUSLAEBU	12
		AGRLICPR	19		
		MELDETOS	19	<i>Title citations</i>	
		ZEIZUCBE	17	FICSIEPA	550
H		BETNALBO	14	BYUSIZSO	325
Agricultural economics and rural sociology		ETURURPA	9	BYUSIRSO	324
		INFWEIFR	5	NORTOSTO	256
<i>Abstracts</i>		<i>Title citations</i>		AMEBIAWA	180
SELLISMO	13406	NORTOSTO	1323	ETURURPA	88
INDRETRA	4880	FICSIEPA	700	BIBAGATU	60
ECOABSHA	3000	BIBAGATU	405	BIBAGLTU	57
CENBIIMO	2200	BIBAGLTU	395	BIOINFLJ	34
LITERAHA	1700	LANASEWA	352	BIBARABU	32
BIBINEBR	1500	BYUSIRSO	336	AGRSCZBU	30
KORBEVHA	1500	AMEBIAWA	330	BIBAGCTU	20
LANBOWWA	1195	BIBAGCTU	283	BIBAGNTU	12
TROPRILO	400	BIBAGNTU	107	MUSLAEBU	12
BIBAGRAN	300	AGRLICPR	80	DAISCASH	10
SCHAGRWI	300	BOLDOCRI	78		
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BULSIRPA	30	CURAWADU	50	Rural sociology	
AGRRESPR	13	LANZEIBR	50	<i>Abstracts</i>	
UGEAGHTU	9	COMFIAWA	49	REFRAUBO	600
VITISWSI	2	PUDBULWA	46	WORAGEOX	538
<i>Title citations</i>		BYUSIZSO	44	GEOABSNO	200
BIBAGRBE	4251	BIBARABU	34	IDKAGLBO	187
BULSIAPA	4000	BIBAGBLA	25	ZEIAGAST	100
BULLIBPA	2000	ETURURPA	25	BIBINEBR	50
SERREFSA	1000	MUSLAEBU	24	TROABSAM	32
INDAGIPA	739	CONIILTU	23	REVREFBU	26
SCHAGRWI	200	BOLBIBRE	15	FAODOCRO	25
VITISWSI	24	REORDELU	9	AMEBIAWA	20
BIBSCNBE	18			NORTOSTO	16
CONREELO				AGRSCZBU	15
				ETURURPA	15
		H2		<i>Title citations</i>	
		Microeconomics (economics of production)		CATCORTU	6050
H1		<i>Abstracts</i>		BIBAGLTU	231
Agricultural policy, macroeconomics (e.g. supply and demand, prices, marketing, trade finance, credit, cooperation)		WORAGEOX	1511	NORTOSTO	225
		REVREFBU	945	LANREISU	212
<i>Abstracts</i>		KARLABFR	600	BIBJUCBE	120
WORAGEOX	3338	BIBINEBR	500	BIBAGCTU	118
BIBINEBR	1000	IDKAGLBO	149	BIBAGATU	91
INTBUDBR	750	AMEBIAWA	120	INDAGIPA	84
FERABSMU	480	BULSIRPA	100	FICSIEPA	50
IDKAGLBO	450	GEOABSNO	100	BIBAGNTU	47
REVREFBU	443	DAISCASH	90	REORDELU	35
AMEBIAWA	220	INFWEIFR	87	CONIILTU	34
TROABSAM	215	HORECNHA	57	AMEBIAWA	30
		TROABSAM	57	LANZEIBR	30
		ETURURPA	53	BIBESPTU	21
		FAODOCRO	46		

ETURURPA	20	INDAGIPA	90	BIBAGCTU	200
AGRSCZBU	15	CURAWADU	50	ABSMYCPH	186
BYUSIZSO	14	BIBAGCTU	45	BIBAGLTU	183
K					
<i>Plant production in general</i>					
<i>Abstracts</i>					
SELLISMO	5342	MUSLAEBU	12	REORDELU	70
CENBIIMO	2100	REORDELU	12	ABSENTPH	63
MITDOBFR	1200	AGRSCZBU	5	BIBAGATU	55
LANBOWWA	937	BULSCAZA	5	SOIFERHA	52
UGEAGHTU	39			BIORETBI	51
AGRLICPR	18			BIBARABU	41
MELDETOS	11			BIBAGNTU	40
AGRRESPR	10			DOKWASDU	34
NORTOSTO	10			AGRSCZBU	30
K2					
<i>Title citations</i>					
BULSISVE	18991	Soil science.			
BIBAGRBE	6020	Soil conditions in general			
HELYLMHE	463	<i>Abstracts</i>			
CSMDOLBH	80	SOIFERHA	2828		
BYUSIRSO	72	CENBIIMO	1700		
AGRLICPR	38	DOKLRVPR	1370		
BOLDOCRI	20	BIOABSPH	1194		
REORDELU	17	CURBISTO	612		
BIBSCNBE	13	INDSCADE	550		
K1					
<i>Abstracts</i>					
AGRBIBOF	1200	PESTDOLO	550		
METGEABO	1000	ABSMYCPH	375		
BULMECPR	300	IDKBOBRR	350		
CENBIIMO	300	MICABALO	256		
GEOABSNO	300	GEOABSNO	250		
PESTDOLO	180	ABSENTPH	156		
DOKLRVPR	100	SELWARWA	150		
FAODOCRO	60	LANBOWWA	131		
BULSCAZA	45	REVREFBU	131		
WATREUR	36	POLABSLA	120		
REVREFBU	16	PEAABSKI	103		
MUSLAEBU	12	METGEABO	100		
FICANSVE	11	REFBYBSO	92		
TROABSAM	11	WATREUR	72		
LANBAUBR	10	TROABSAM	58		
BIOINFLJ	7	MUSLAEBU	50		
AGRSCZBU	5	FICANSVE	36		
K3					
<i>Title citations</i>					
AGRMERAM	2000	GENABSLO	36		
METOFMBR	1190	AGRSCZBU	30		
CURADPOX	440	FAODOCRO	30		
AGRBIBOF	250	KEYTUSAN	29		
LANREISU	157	POLECBWA	29		
		PAKSCAKA	17		
		AGRRESPR	15		
		BIOINFLJ	6		
		VITISWSI	2		
Tillage and soil cultivation					
<i>Abstracts</i>					
				DOKLRVPR	850
				REVREFBU	316
				PESTDOLO	190
				LANBOWWA	113
				GEOABSNO	100
				IDKBOBRR	100
				SOIFERHA	70
				REFBYBSO	60
				FAODOCRO	45
				BIOINFLJ	29
				MUSLAEBU	24
				FICANSVE	21
				AGRSCZBU	20
				TROABSAM	14
				MUSLAGBU	12
				INFWEIFR	8
				BOLDOCPA	
<i>Title citations</i>					
				CURAWADU	350
				DOKLRVPR	150
				LANZEIBR	80
				DOCAGRAM	78
				BYUSIRSO	72
				PUDBULWA	54
				IDKBOBRR	50
				BOLBIBRE	41
K2					
<i>Title citations</i>					
		BIOABSPH	1660		
		CURAWADU	550		
		CURADPOX	440		
		BYUSIRSO	408		
		LANREISU	260		
		INDAGIPA	248		

BULBILPA 30
NORTOSTO 28
AGRSCZBU 20
BIBARABU 16
MUSLAEBU 12
BIOINFLJ 8
SOIFERHA 4

K4

Plant nutrition and fertilizers

Abstracts

CHEABSCO 3929
SOIFERHA 2102
FERABSMU 1600
CENBIIMO 1200
BIOABSPH 923
DOKLRVPR 840
PHOAGRPA 700
RESARCMA 587
IDKBOBRR 500
REVREFBU 494
ABSMYCPH 486
PESTDLO 300
TROPRILO 240
CURBISTO 227
BORAGRLO 200
FAODOCRO 175
MUSLAEBU 124
LANBOWWA 122
FICANSVE 106
MUSLAKBU 100
REFBYBSO 71
PEAABSKI 66
TROABSAM 65
INDSCADE 50
AGRSCZBU 40
ABSENTPH 32
INFWEIFR 27
TECINSGR 20
AGRRESPR 18
BETNALBO 18
BIOINFLJ 14
FIECRAHU 14
MUSLAGBU 12
FORHAIKO 5

Title citations

BIOABSPH 1247
CURAWADU 1100
KALSALHA 920
BYUSIRSO 696
SULINJWA 450
IDKBOBRR 400
INDAGIPA 307
BIBAGCTU 208
KORSCTSE 169
BIOINFLJ 168
ABSMYCPH 167
DOKLRVPR 160
BIBAGLTU 124

BIBESPTU 112
MUSLAEBU 112
BULBILPA 60
NORTOSTO 56
BIBAGNTU 50
BIBARABU 49
AGRSCZBU 40
DOCAGRAM 36
BIBAGATU 33
FORHAIKO 30
SOIFERHA 28
BOLBIBRE 24
MUSLAKBU 20
ABSENTPH 15
CONIILTU 15
AFRSOSBA
FAIABSNE

K5

Plant breeding

Abstracts

PLABRACA 9370
BIOABSPH 1437
MITDOZFR 1200
ABSMYCPH 931
REVREFBU 535
CENBIIMO 500
TROPRILO 400
GENABSLO 300
MUSLAEBU 180
ABSENTPH 115
FAODOCRO 115
REFBYBSO 92
BIOINFLJ 70
MUSLAGBU 30
VITISWSI 28
AGRSCZBU 25
PESTDLO 25
INFWEIFR 23
PAKSCAKA 20
POLECBWA 18
AGRRESPR 14

Title citations

PROINSAS 2495
BIOABSPH 1853
CURADPOX 540
BIOINFLJ 388
ABSMYCPH 370
BIBAGLTU 305
INDAGIPA 225
MUSLAEBU 120
BIBESPTU 97
BIBAGCTU 77
BIBAGNTU 54
ABSENTPH 51
DOCAGRAM 31
BULBILPA 30
KORSCTSE 30
BOLBIBRE 26

AGRSCZBU 25
VITISWSI 15
PUDBULWA 13
CONIILTU 12
BIBAGATU 8

K6

Plant biology

Abstracts

CHEABSCO 7144
DOKLZPPR 1300
CURBISTO 637
INTNUIWI
MICABCLO

Title citations

BIOINDPH 45000
CURAWADU 3350
PROINSAS 1589
ATOMABZU 1100
DOKLZPPR 850
BULTOBNY 800
ASHGUBAM
BIBBRBRI

L

Plant protection

Abstracts

SELLISMO 5790
CHEABSCO 5254
CENBIIMO 3000
INDSCADE 1180
LANBOWWA 278
VITISWSI 58
UGEAGHTU 50
PAKSCAKA 25
FICANSVE 20
AGRRESPR 14
AGRLICPR 10
MELDETOS 10
TECINSGR 10

Title citations

CURADPOX 2900
BYUSIRSO 660
BIBAGRBE 397
CURAWADU 300
HELYLMHE 108
PUDBULWA 76
VITISWSI 21
REORDELU 14
BOLDOCRI 10
AGRLICPR 7

L1		L2		L3
Diseases and non-biogenic plant injuries		Pests		BIBARABU 36 ABSENTPH 31 BIBAGCTU 22 MUSLAKBU 20 CONIILTU 12
		<i>Abstracts</i>		
<i>Abstracts</i>		PESTDOLO 3300		
REVPLPKE 4014		REVAEALO 2910		
PESTDOLO 3300		TROPRILO 1700		
ABSMYCPH 2603		DOKLFYPR 1650		
DOKLFYPR 2500		ENTABSLO 1456		
MICABALO 1609		CURBISTO 922	Weeds	
VIRABSWA 1050		HELABBSA 779	<i>Abstracts</i>	
REVREFBU 937		REVREFBU 546	WEEABSYA 2738	
ABSENTPH 461		ACRABSLO 450	PESTDOLO 2900	
TROPRILO 425		BIBINMLO 400	DOKLFYPR 900	
DOCPEVE 350		DOCPEVE 300	REVREFBU 217	
VIRABSLO 300		BIOABSPH 294	DOCPEVE 150	
BIOINFLJ 180		TROABSAM 203	TROABSAM 115	
GENABSLO 144		MUSLAKBU 100	MUSLAKBU 100	
TROABSAM 140		POLECBWA 93	VITISWSI 72	
MUSLAEBU 100		MUSLAEBU 80	FAODOCRO 55	
FAODOCRO 78		AGRSCZBU 60	BIOABSPH 50	
REFBYBSO 75		FAODOCRO 60	REFBYBSO 37	
AGRSCZBU 60		GENABSLO 60	AGRSCZBU 25	
INFWEIFR 33		REFBYBSO 52	ABSENTPH 21	
MUSLAGBU 30		ABSENTPH 49	MUSLAEBU 20	
POLABSLA 24		ABSMYCPH 47	FICANSVE 14	
BULSCAZA 16		BIOINFLJ 43	TROPRILO 14	
KEYTUSAN 16		FICANSVE 35	BIOINFLJ 11	
POLECBWA 10		MELDETOS 33	BULSCAZA 11	
BETNALBO 6		ABSCUSLE 23	INFWEIFR 10	
		GEOABSNO 20	POLECBWA 10	
		BULSCAZA 12		
		KEYTUSAN 12		
		INFWEIFR 11		
<i>Title citations</i>		<i>Title citations</i>		<i>Title citations</i>
BIBPFLBE 6200		BIBAGRBE 11731		BIBPFLBE 2500
BULSISVE 4940		BULSISVE 5059		CURAWADU 600
TROPFLBE 1500		BIBPFLBE 4500		TROPFLBE 500
ABSMYCPH 1219		TROPFLBE 1600		WEEABSYA 155
BYUSIRSO 1116		REVAEALO 1162		KORSCTSE 150
BIOABSPH 674		CURAWADU 1000		BYUSIRSO 108
KORSCTSE 509		INDAGIPA 994		DOCAGRAM 105
BIOINFLJ 416		BYUSIRSO 720		INDAGIPA 98
ABSENTPH 237		BIOABSPH 549		BIOINFLJ 86
DOKLFYPR 200		STARELLA 400		BIOABSPH 80
BIBAGLTU 193		KORSCTSE 215		BIBAGLTU 44
BIBAGCTU 182		BIOINFLJ 166		DOKLFYPR 40
PROINSAS 173		HELABBSA 160		VITISWSI 34
INDAGIPA 170		BIBAGLTU 154		BULBILPA 30
BIBARABU 93		BIBAGNTU 121		MUSLAEBU 30
BOLBIBRE 64		BOLBIBRE 102		AGRSCZBU 25
AGRSCZBU 60		DOKLFYPR 70		ABSENTPH 22
NORTOSTO 58		BIBAGATU 64		BIBAGNTU 22
MUSLAEBU 50		BIBESPTU 63		MUSLAKBU 20
BIBAGATU 48		AGRSCZBU 60		BIBARABU 19
BULBILPA 40		DOCAGRAM 55		BIBAGCTU 16
VIRABSLO 30		ABSMYCPH 53		NORTOSTO 15
DOCAGRAM 26		ACRABSLO 50		BIBAGATU 14
BIBAGBLA 18		MUSLAEBU 40		BIORETBI 13
BIBAGNTU 18		NORTOSTO 39		BIBESPTU 10
KALSALHA 10				BULSCAZA 4

M		<i>Title citations</i>			
Crops		INTBIRMA	2766	NORTOSTO	40
		BIOABSPH	1146	AGRSCZBU	25
<i>Abstracts</i>		BYUSIRSO	912	BIOINFLJ	22
SELLISMO	22052	BIOINFLJ	678	KORCTSE	21
BSBABSLO	500	MAIZMATU	600	BIBAGLTU	20
ANAABSLO	350	INDAGIPA	528	BOLBIBRE	20
REFBYBSO	99	CURAWADU	500	REORDELU'	13
PAKSCAKA	90	NORTOSTO	295	MUSLAEBU'	12
BULSCAZA	53	DOKLRVPR	250		
KEYTUSAN	49	KORCTSE	228	M3	
TECINSGR	38	BIBFSPTU	144	Roots and tubers (potato, sweet potato, yam, taro, cassava, artchoke, etc.)	
AGRRESPR	37	ABSMYCPH	131	<i>Abstracts</i>	
MELDETOS	27	MUSLAEBU	120	FIECRAHU	483
AGRLICPR	25	BIBAGCTU	97	DOKLRVPR	430
MUSLAGBU	24	ABSENTPH	84	PESTDLO	340
FICANSVE	18	LANREISU	80	TROPRILO	210
UGEAGHTU	12	AGRSCZBU'	75	REVREFBU	134
		AGRLICPR	73	INDSCADE	80
<i>Title citations</i>		BIBAGNTU	68	GENABSLO	60
BIBAGRBE	35246	BIBARABU	67	FICANSVE	57
PUDBULWA	165	REORDELU'	62	TROABSAM	54
BIBAGBLA	41	DOCAGRAM	45	FAODOCRO	30
BIBAGATU	32	BIBAGLTU	44	AGRSCZBU	25
CONIILTU	20	BOLBIBRE	43	MUSLAGBU	25
MUSLAGBU	20	FORHAIKO	30	BIOINFLJ	24
AGRLICPR	16	BIBAGATU	23	MUSLAEBU	24
BULSCAZA	6			FORHAIKO	10
		M2		TARRELCA	
		Pulses (Phaseolus, cowpea, pea etc.)			
M1		<i>Abstracts</i>		<i>Title citations</i>	
Cereals (wheat, barley, sorghum, maize, rice, etc.)		FIECRAHU	686	CURAWADU	300
		HORABSKE	656	BIOINFLJ	234
<i>Abstracts</i>		BIOABSPH	598	BIBESPTU	173
CENBIIMO	4000	PESTDLO	500	BYUSIRSO	132
FIECRAHU	2634	DOKLRVPR	370	DOKLRVPR	50
DOKLRVPR	2000	TROPRILO	210	BIBARABU'	33
PESTDLO	1500	GENABSLO	100	BIBAGCTU	31
REVREFBU	875	REVREFBU	95	AGRSCZBU	25
BIOABSPH	818	INDSCADE	80	BIBAGLTU	20
TROABSAM	474	TROABSAM	49	FORHAIKO	20
INDSCADE	380	FICANSVE	31	NORTOSTO	19
ABSMYCPH	302	AGRSCZBU	25	BOLBIBRE	17
GENABSLO	300	FAODOCRO	25	AGRLICPR	16
ABSENTPH	234	MUSLAEBU	24	KORCTSE	12
FICANSVE	228	BIOINFLJ	22	MUSLAEBU'	12
TROPRILO	200	INFWEIFR	5	REORDELU'	8
MUSLAEBU'	150				
BIOINFLJ	130	<i>Title citations</i>		M4	
FAODOCRO	125	BIOABSPH	835	Fibres (sisal, fibre flax, kenaf, jute, cotton, hemp, etc.)	
AGRSCZBU	75	BIBFRITU	300	<i>Abstracts</i>	
RICJOUWA	70	CURAWADU'	150	CENBIIMO	800
JOUINBLO	53	BYUSIRSO	108	FIECRAHU	451
MUSLAGBU	25	DOKLRVPR	70	PESTDLO	275
AGRLICPR	17	BIBAGCTU	65		
NORTOSTO	13	DOCAGRAM	65		
FORHAIKO	10	BIBESPTU	58		
BETNALBO	8	INDAGIPA	58		
		LANREISU	56		

TROABSAM	234	AGRSCZBU'	25	BIOINFLJ	56
DOKLRVPR	230	BIOINFLJ	16	BIBARABU'	40
TROPRILO	200			BIBAGCTU'	27
COTGRRLO	185	<i>Title citations</i>		AGRSCZBU	25
BIOABSPH	162	BIOABSP	300	BIBESPTU	24
INDSCADE	140	BIBESPTU	166	INTSUJHI	21
ABSENTPH	133	INDAGIPA	128	ABSENTPH	16
FAODOCRO	125	BYUSIRSO	120	KORCTSE	15
ABSMYCPH	83	BULBILPA	100	ABSMYCPH	14
GENABSLO	60	LANREISU	87	BIBAGLTU	11
REVREFBU'	34	KORCTSE	62	BOLBIBRE	11
HORABSKE	17	MUSLAEBU'	60	NORTOSTO	11
AGRSCZBU'	10	DOKLRVPR	50	REORDELU	11
		BIBARABU	49		
<i>Title citations</i>		ABSMYCPH	41		
COTFITPA	1730	BIOINFLJ	38	M7	
BIOABSPH	233	ABSENTPH	33		
BYUSIRSO	110	BIBAGLTU	26	Vegetables (lettuce, tomato, cabbage, cucumber, carrot, etc.)	
BULBILPA	100	AGRSCZBU	25	<i>Abstracts</i>	
INDAGIPA	79	BOLBIBRE	22	HORABSKE	1811
ABSENTPH	68	BIBAGNTU	20	DOKLRVPR	1080
LANREISU	55	REORDELU	16	INFGARHA	988
CURAWADU	50	BIBAGCTU		PESTDOLO	750
BIBAGNTU	38			REVREFBU'	672
REORDELU	36			BIOABSPH	445
BOLBIBRE	33			LANBOWWA	431
BIBAGCTU	31	M6		TROPRILO	400
KORCTSE	31			ABSMYCPH	347
DOKLRVPR	30	Sugar crops (sugar cane, sugar beet)		ABSENTPH	202
BIBESPTU	29	<i>Abstracts</i>		FICANSVE	184
ABSMYCPH	26	BULINFTI	1000	INFWEIFR	98
BIBAGLTU	19	CENBIIMO	600	INDSCADE	90
AGRSCZBU	10	SUCBELTI	600	FAODOCRO	80
FORHAIKO	10	INTSUJHI	583	MUSLAEBU	80
NORTOSTO	10	DOKLRVPR	425	REFBYBSO	80
		HORABSKE	344	TROABSAM	80
		FIECRAHU	266	GENABSLO	60
		ZEIZUCBE	186	AGRSCZBU	50
		INDSCADE	170	BIOINFLJ	28
		PESTDOLO	160	PEAABSKI	16
		TROABSAM	160	BETNALBO	12
		TROPRILO	140	AGRLICPR	10
		BIOABSPH	106		
		MUSLAEBU	80		
		REVREFBU	70	<i>Title citations</i>	
		GENABSLO	48	LITATTAL	1775
		FICANSVE	45	BIOABSPH	758
		ABSENTPH	41	BYUSIRSO	408
		ABSMYCPH	40	LANASEWA	261
		AGRSCZBU	25	INDAGIPA	231
		FAODOCRO	15	DOKLRVPR	200
		<i>Title citations</i>		DOCAGRAM	198
		INSZUCGO	1000	NORTOSTO	192
		CURAWADU	300	ABSMYCPH	125
		BRAACURI	263	KORCTSE	81
		BYUSIRSO	156	MUSLAEBU	80
		BIOABSPH	144	ABSENTPH	78
		DOKLRVPR	105	BIBESPTU	78
		INDAGIPA	69	BIBAGCTU	66
		MUSLAEBU	60	BIBAGNTU	52

AGRSCZBU	50
BOLBIBRE	31
BIBAGATU	22
BIBAGLTU	18
BIBARABU	18
AGRLICPR	16
REORDELU	10

VITISWSI	53
AGRSCZBU	50
BIBARABU	39
AGRLICPR	33
MUSLAEBU	30
BOLBIBRE	21
BIBAGCTU	11

FIECRAHU	381
PESTDOLO	360
TROABSAM	290
INDSCADE	180
MUSLAEBU	150
FAODOCRO	105
CAFCAATPA	90
GENABSLO	60
ABSMYCPH	34
REFBYBSO	29
AGRSCZBU	15
MUSLAGBU	10
BIOINFLJ	6

M8

**Temperate fruits and nuts
(apple, cherry, almond, pecan,
chestnut, grape, hazel nut,
strawberry, blackcurrant, etc.)**

Abstracts

CENBIIMO	3200
HORABSKE	2927
DOKLRVPR	1230
INFGARHA	876
PESTDOLO	830
REVREFBU	510
BIOINFLJ	486
BULOIVPA	277
FICANSVE	264
BIOABSPH	184
ABSENTPH	175
ABSMYCPH	142
TROPRILO	140
MITKLOKL	125
LANBOWWA	118
INFWEIFR	101
REFBYBSO	96
MUSLAEBU	60
AMEJOEDA	51
AGRSCZBU	50
FAODOCRO	50
GENABSLO	48
WEINWIWI	46
VITISWSI	38
AGRRESPR	12
NORTOSTO	12
AGRLICPR	11
INDSCADE	10
MUSLAGBU	10

Title citations

MITKLOKL	600
BYUSIRSO	564
CURAWADU	450
BIOABSPH	307
PUBULWA	266
INDAGIPA	183
DOKLRVPR	150
WEINWIWI	132
ABSENTPH	94
NORTOSTO	93
KORSCTSE	80
ABSMYCPH	77
BIBESPTU	62
BIBAGLTU	53

M9

**Tropical fruits and nuts (citrus,
banana, pineapple, macadamia,
mango, etc.)**

Abstracts

FRUOUMPA	3500
HORABSKE	1142
CENBIIMO	700
TROPRILO	570
TROABSAM	293
INDSCADE	290
PESTDOLO	270
LANBOWWA	266
BIOABSPH	214
ABSENTPH	131
ABSMYCPH	123
FAODOCRO	45
MUSLAEBU	40
GENABSLO	20
DOKLRVPR	10

Title citations

BIOABSPH	429
NORTOSTO	153
ABSMYCPH	93
BIBAGCTU	73
LANREISU	73
BIBAGLTU	59
ABSENTPH	57
BIBAGNTU	51
BIBARABU	43
KORSCTSE	38
MUSLAEBU	20
BIBAGATU	14
BOLBIBRE	12
DOKLRVPR	10
REORDELU	10

M10

**Stimulants and medicinals
(tobacco, tea, coffee, cacao, pepper,
nutmeg, chill, quinine, mint, etc.)**

Abstracts

TROPRILO	4800
TOBABSRA	2861
BULINCPA	1250
HORABSKE	872
BIOABSPH	649

Title citations

ACCBULLO	1800
BIOABSPH	980
CATECATU	400
CURAWADU	400
BIBAGCTU	343
BIBESPTU	136
MUSLAEBU	120
INDAGIPA	115
BYUSIRSO	84
BIBAGATU	62
REORDELU	55
BOLDOCRI	45
NORTOSTO	43
BIBAGLTU	39
ABSMYCPH	34
BIOINFLJ	34
BIBAGNTU	31
KORSCTSE	27
AGRSCZBU	15
BOLBIBRE	15
BIBCAFLI	15

M11

**Ornamentals
(flowers, shrubs, lawns, sports,
turf, etc.)**

Abstracts

CENBIIMO	1300
HORABSKE	1231
INFGARHA	924
DOKLRVPR	840
PESTDOLO	350
LANBOWWA	282
REVREFBU	248
INFWEIFR	157
BIOABSPH	136
ABSMYCPH	84
GENABSLO	80
ABSENTPH	60
FICANSVE	56
PEAABSKI	35
AGRSCZBU	30
INDSCADE	30
REFBYBSO	12
BIOINFLJ	6
FAODOCRO	5

Title citations

BIOABSPH	322
DOKLRVPR	200
BYUSIRSO	168
KORSCTSE	46
ABSMYCPH	44
INDAGIPA	43
ABSENTPH	42
NORTOSTO	42
AGRSCZBU	30
BIOINFLJ	28
BIBAGCTU	19
BIBAGLTU	9

M12

**Other industrial crops
(rubber, etc.)**

Abstracts

CENBIIMO	700
HORABSKE	327
INDSCADE	250
TROPRILO	150
TROABSAM	100
BIOABSPH	53
GENABSLO	36
PESTDOLO	20
JOUIBLO	17
FAODOCRO	10
GEOABSNO	10

Title citations

LISBIBBA	250
BIOABSPH	102
BOLBIBRE	54
BYUSIRSO	36
BIBESPTU	21
AGRLICPR	19
REORDELU	18
BIBAGCTU	14
KORSCTSE	6

N.

**Herbage crops, fodder crops,
grasslands and rangelands**

Abstracts

HERABSHU	3099
CENBIIMO	2000
DOKLRVPR	1000
INFGRRFR	960
BIOABSPH	598
PESTDOLO	430
REVREFBU	324
FICANSVE	200
TROABSAM	195
ABSENTPH	167
TROPRILO	150

INDSCADE	130
ABSMYCPH	116
FAODOCRO	45
AGRSCZBU	40
GENABSLO	40
FIECRAHU	32
MELDETOS	32
REFBYBSO	27
POLECBWA	26
FORHAIKO	20
GEOABSNO	20
TECINSGR	17
AGRLICPR	13
PEAABSKI	11
MUSLAGBU	10
PAKSCAKA	9
BIOINFLJ	8
BETNALBO	6

Title citations

BIOABSPH	835
BYUSIRSO	480
BIOINFLJ	272
LANASEWA	222
DOKLRVPR	200
INFGRRFR	200
NORTOSTO	171
LANREISU	125
BIBAGCTU	91
KORSCTSE	83
HERABSHU	79
BIBAGLTU	67
INDAGIPA	57
BIBESPTU	51
ABSENTPH	50
BIBARABU	41
BOLBIBRE	41
AGRSCZBU	40
BIBAGBLA	40
FORHAIKO	40
ABSMYCPH	37
AGRLICPR	28
BIBAGNTU	20
BIBAGATU	18
REVELMMA	10

O

Forestry

Abstracts

SELLISMO	4023
CENBIIMO	2800
FORUMSFR	500
ABSENTPH	258
ABSMYCPH	258
LANBOWWA	110
GEOABSNO	100
INDSCADE	60
PAKSCAKA	15

Title citations

BIBAGRBE	5161
BIBJUCBE	300
ABSENTPH	141
ABSMYCPH	123
PUDBULWA	67
LANASEWA	17

O1

**Wood production
(silviculture, phytopathology,
forest protection, forest
engineering, etc.)**

Abstracts

FORABSOX	5153
PRELEMPR	2360
BYUKAGSO	2039
BOLBIBME	980
BIOABSPH	767
PESTDOLO	355
TROPRILO	200
FORFICOT	180
MICABALO	163
REFBYBSO	125
REVFOABU	80
FERABSMU	75
AGRSCZBU	70
FAODOCRO	70
HELABBSA	52
GEOABSNO	50
PEAABSKI	47
BULSCAZA	40
POLECBWA	33
FICANSVE	31
BOIFOTNO	30
GENABSLO	30
BIOINFLJ	21
MELDETOS	17
BETNALBO	6
AGRLICPR	3

Title citations

BIBFOHRE	7000
CESLEBPR	2000
BIOABSPH	1288
CALFORBE	1200
LANREISU	369
FORABSOX	328
BIBPFLBE	300
CURAWADU	300
BIBAGLTU	214
KORSCTSE	195
NORTOSTO	157
BIBAGCTU	145
REORDELU	81
REVFOABU	80
AGRSCZBU	70
TROPFLBE	70
BIBARABU	50
BIBAGATU	49

INDAGIPA	40
AGRLICPR	38
BIBAGNTU	35
BIBESPTU	30
BOLBIBRE	17
BIBAGBLA	11
BULSCAZA	6

O2

Wood technology and wood industries (forest products, wood and wood by-products, etc.)

Abstracts

PAPBOALE	1923
BYUKADSO	1776
FORABSOX	1698
BULBICPA	800
BIOABSPH	767
TROPRILO	600
CHEABSCO	516
BOLBIBME	432
PRELEMPR	180
FAODOCRO	85
REFBYBSO	69
AGRSCZBU	50
GEOABSNO	50
PESTDULO	30
REVFOABU	20
BIOINFLJ	18
BOIFOTNO	15
POLABSLA	13
BULSCAZA	11

Title citations

SCHOSGWI	3600
BIBFOHRE	3500
BIOABSPH	1288
BIORETBI	356
CALFORBE	300
CURAWADU	300
KORCTSE	147
FORABSOX	108
NORTOSTO	102
AGRSCZBU	50
BIBARABU	29
BIBAGCTU	24
BIBAGLTU	24
BIBESPTU	20
REVFOABU	20
BOLBIBRE	14
REORDELU	7

P

Animal husbandry

Abstracts

SELLISMO	11575
CENBIIMO	3800

BIOABSPH	1590
LANBOWWA	966
GEOABSNO	50
MELDETOS	10

Title citations

BULSICJO	31200
BIBAGRBE	22110
BIOABSPH	2397
HELYLMHE	314
PUDBULWA	254
LANASEWA	160
BOLBIBRE	10

P1

Animal breeding and genetics

Abstracts

ANIBRAED	4956
IDKTIPST	2000
DOKLZVPR	1620
GENABSLO	1000
ABSENTPH	653
REVREFBU	525
BIOABSPH	411
DAISCASH	180
FAODOCRO	100
MUSLAEBU	70
TROPRILO	60
FICANSVE	37
AGRSCZBU	30
ABSMYCPH	27
MUSLAGBU	25
PAKSCAKA	15
AGRRESPR	13
REFBYBSO	11
MILCHWKI	10

Title citations

ANILARPA	2900
BIBREPCA	1500
INDBIBMA	700
BIOABSPH	621
BYUSIZSO	493
ANIBRAED	480
ABSENTPH	253
DOKLZVPR	200
VETGERKO	150
BIBARABU	74
BIBAGLTU	67
BIBAGCTU	64
MUSLAEBU	50
BIBAGNTU	42
AGRSCZBU	30
BIBESPTU	30
REVELMMA	30
BIBAGBLA	24
BIBAGATU	23
KORCTSE	23
DAISCASH	20
ABSMYCPH	11
MUSLAGBU	10
SAUSCHMO	

P2

Animal nutrition (feeding, composition and nutritive value of feeds, physiology of nutrition, etc.)

Abstracts

NUTABRAB	5206
CHEABSCO	3334
IDKTIPST	2500
DOKLZVPR	1770
REVFRCPA	1500
BIOABSPH	938
REVREFBU	747
RESAROMA	587
VETDOCLO	500
LANBOWWA	425
TROPRILO	300
CURBISTO	248
DAISCASH	225
TECINSGR	205
MICABALO	100
MUSLAEBU	100
ABSMYCPH	66
GENABSLO	60
LANBAUBR	60
ZEIZUCBE	60
AGRSCZBU	50
UITPLUBE	50
FAODOCRO	45
REFBYBSO	43
PESTDULO	35
ABSENTPH	31
MILCHWKI	30
GRAACESE	28
BIOINFLJ	26
BULSCAZA	26
TROABSAM	18
AGRRESPR	17
BIBANSLY	10
MUSLAGBU	10
AGRLICPR	9
BETNALBO	7
FORHAIKO	3

Title citations

BIOABSPH	1681
NUTABRAB	1434
BYUSIZSO	1081
INDBIBMA	800
CURAWADU	250
KORCTSE	190
DOKLZVPR	150
LANREISU	129
BIBAGLTU	113
VETGERKO	100
UITPLUBE	100
BIBARABU	81
FORHAIKO	80
MUSLAEBU	80
BIORETBI	55
AGRSCZBU	50

LANZEIBR	50
KALSALHA	45
BIBAGCTU	40
BIBAGNTU	36
BIBESPTU	36
COMFIAWA	32
ABSMYCPH	25
DAISCASH	25
REVELMMA	25
AGRLICPR	21
BIBAGATU	12
BULBILPA	10

P3

Veterinary medicine and hygiene

Abstracts

CENBIIMO	7100
VETBULWE	6678
CHEABSCO	6428
SELLISMO	6030
EXME37AM	6000
VETDOCLO	4300
HELABASA	4102
DOKLZVPR	2890
DOKLVMPR	2890
BYUKAVSO	1675
REVREFBU	1653
VIRABSLO	1500
REVMEVKE	1471
IVRSSAWH	1100
EXME17AM	1000
IVRSLAWH	960
REVAEBLO	756
CHIVETZO	600
BIOABSPH	530
IDKTIPST	500
ENTABSLO	486
EXME30AM	400
MICABALO	377
KEYTUSAN	339
DAISCASH	315
REFBYBSO	285
ABSENTPH	197
ABSMYCPH	177
JOUAMVCH	164
AGRSCZBU	150
PESTDOLLO	150
INFEPSRI	143
MICABBLO	135
BOLCEPRI	115
LANBOWWA	115
EXME05AM	100
BULSCAZA	81
TROPRILO	80
HELABBSA	64
MUSLAEBU	60
BIOINFLJ	54
BIBANSLY	50
MILCHWKI	45
FAODOCRO	40
TECINSGR	32

GENABSLO	24
AGRLICPR	14
AGRRESPR	10
UITPLUBE	10

Title citations

INDVETWE	16000
INDBIBTO	12500
TOXBIBBE	10000
INDMEDBE	8500
BULANEP	3500
BULBIVLY	3250
INFVETHA	2500
VETGERKO	2250
INDBIBMA	2000
BULSIPNO	1650
VETSUEST	1200
HELABASA	1180
DOKLZVPR	950
DOKLVMPR	950
BIOABSPH	934
VIRABSLO	800
BULSILNO	700
BIBJUCBE	600
JOUAMVCH	399
BIBAGLTU	305
BIBARABU	285
BULSCAZA	175
REVAEBLO	165
AGRSCZBU	150
BIOINFLJ	150
ABSENTPH	121
REVELMMA	119
BIBREPCA	100
AGRLICPR	96
BOLCEPRI	85
KORSCTSE	77
ABSMYCPH	73
REVMEVKE	56
BIBAGCTU	51
BIBAGNTU	51
NORTOSTO	36
DAISCASH	35
BIBAGATU	30
MUSLAEBU	30
KEYTUSAN	26
UITPLUBE	20
BIBESPTU	18
REORDELU	16
HELABBSA	12

P4

Animal biology

Abstracts

CHEABSCO	14395
CURBISTO	2471
DOKLZPPR	1300
JOUANEIX	350
BOLIFTBU	
MICABCLO	

Title citations

BIOINDPH	45000
CURAWADU	11600
BIBBRZRI	
ZOORECLO	

Q

Domestic animals

Abstracts

JOUAMOCH	64
INDSCADE	60
TECINSGR	45
ABSMYCPH	33
MELDETOS	27
BULSCAZA	22
KEYTUSAN	18
AGRLICPR	15
POLECBWA	14
PAKSCAKA	13
FICANSVE	10
AGRSCZBU	5

Title citations

BIBAGATU	21
MUSLAGBU	17
REVELMMA	15
BIBAGCTU	14
BIBSCNBE	10
ABSMYCPH	8
AGRLICPR	8
AGRSCZBU	5
BULSCAZA	2
SAUSCHMU	

Q1

Equidae

Abstracts

BIOABSPH	696
VETDOCLO	225
DOKLZVPR	100
ABSENTPH	35
REVREFBU	32
BETNALBO	30
DAISCASH	20
GENABSLO	12

Title citations

BIOABSPH	1067
CURAWADU	300
BIBREPCA	100
BYUSIZSO	49
JOUAMVCH	39
ABSENTPH	20
DOKLZVPR	20
BIBARABU	16

INDBIBMA 10
 KORSTSE 10
 NORTOSTO 10

Q2

Cattle and other large ruminants

Abstracts

BIOABSPH 5929
 CENBIIMO 3200
 VETDOCLO 1350
 DOKLZVPR 1340
 DAISCASH 950
 REVREFBU 355
 ABSENTPH 274
 GENABSLO 240
 PESTDOLO 175
 FAODOCRO 150
 ABSMYCPH 128
 FICANSVE 103
 TROPRILO 80
 MUSLAEBU 66
 MILCHWKI 60
 AGRSCZBU 50
 UGEAGHTU 35
 MELDETOS 32
 REFBYBSO 32
 TROABSAM 31
 MUSLAGBU 30
 INFEPSRI 28
 AGRRESPR 25
 BETNALBO 22
 AGRLICPR 15

Title citations

BIOABSPH 9053
 BIBREPCA 1000
 BYUSIZSO 602
 CURAWADU 300
 LANASEWA 160
 KORSTSE 156
 NORTOSTO 119
 ABSENTPH 117
 BIBARABU 102
 DAISCASH 100
 DOKLZVPR 100
 INDBIBMA 100
 AGRLICPR 93
 REVELMMA 66
 AGRSCZBU 50
 ABSMYCPH 48
 MUSLAEBU 43
 JOUAMVCH 34
 BIBAGNTU 28
 BIBESPTU 27
 REORDELU 26
 BIBAGLTU 23
 BOLBIBRE 19
 BIBAGCTU 17

Q3

Sheep, goats and other small ruminants

Abstracts

CENBIIMO 1100
 DOKLZVPR 880
 VETDOCLO 600
 DAISCASH 225
 REVREFBU 164
 GENABSLO 120
 REFBYBSO 42
 FICANSVE 41
 PESTDOLO 40
 AGRRESPR 29
 FAODOCRO 28
 MUSLAGBU 25
 AGRSCZBU 20
 MUSLAEBU 12
 INFEPSRI 11
 TROPRILO 10
 MILCHWKI 5

Title citations

CURAWADU 600
 BIBREPCA 500
 BYUSIZSO 206
 DOKLZVPR 80
 KORSTSE 78
 INDBIBMA 50
 BIBESPTU 32
 DAISCASH 25
 AGRSCZBU 20
 BIBARABU 20
 MUSLAEBU 16
 REORDELU 16
 BOLBIBRE 14
 REVELMMA 12
 AGRLICPR 10

Q4

Pigs

Abstracts

BIOABSPH 1806
 DOKLZVPR 1340
 CENBIIMO 1300
 VETDOCLO 700
 REVREFBU 196
 MUSLAEBU 100
 DAISCASH 75
 GENABSLO 60
 ABSENTPH 45
 ABSMYCPH 41
 AGRSCZBU 40
 FICANSVE 36
 FAODOCRO 35
 UGEAGHTU 35
 REFBYBSO 31

MUSLAGBU 25
 BETNALBO 22
 PESTDOLO 20
 AGRLICPR 13
 INFEPSRI 11
 TROPRILO 10

Title citations

BIOABSPH 2950
 CURAWADU 700
 BYUSIZSO 502
 BIBREPCA 450
 NORTOSTO 106
 KORSTSE 103
 DOKLZVPR 100
 INDBIBMA 100
 MUSLAEBU 100
 AGRLICPR 66
 AGRSCZBU 40
 REORDELU 40
 ABSENTPH 26
 BIBESPTU 26
 BIBARABU 25
 ABSMYCPH 22
 JOUAMVCH 19
 REVELMMA 13

Q5

Other mammals (fur bearers, laboratory animals, etc.)

Abstracts

BIOABSPH 34661
 EXME37AM 20000
 EXME29AM 1500
 EXME30AM 1000
 VETDOCLO 850
 GENABSLO 600
 CENBIIMO 500
 EXME05AM 500
 DOKLZVPR 400
 PESTDOLO 350
 DAISCASH 315
 UITPLUBE 200
 REVREFBU 110
 INFEPSRI 80
 MUSLAEBU 30
 AGRSCZBU 15
 TROPRILO 10
 FAODOCRO 5
 MILCHWKI 5

Title citations

BIOABSPH 57331
 BIBREPCA 6000
 CURAWADU 300
 JOUAMVCH 233
 INDBIBMA 200
 UITPLUBE 200

BYUSUZSO 99
DOKLZVPR 80
BOLCEPRI 74
BIBARABU 49
DAISCASH 35
REORDELU 31
AGRSCZBU 15
MUSLAEBU 15
KORSCTSE 14
BIBAGLTU 11

Q6

Poultry

Abstracts

BIOABSPH 3228
CENBIIMO 2000
UITPLUBE 2000
WORPOSLO 1884
DOKLZVPR 1250
VETDOCLO 800
GENABSLO 360
REVREFBU 294
ABSENTPH 110
ABSMYCPH 93
PESTDOLLO 70
MUSLAEBU 60
FAODOCRO 55
AGRSCZBU 50
FICANSVE 41
MUSLAGBU 25
REFBYBSO 25
BIOINFLJ 24
AGR LICPR 15
UGEAGHTU 15
POLABSLA 13
BETNALBO 10
TROPRILO 10

Title citations

BIOABSPH 5307
UITPLUBE 2000
CURAWADU 900
BIBREPCA 750
DOKLZVPR 190
KORSCTSE 175
NORTOSTO 127
BIBARABU 90
DOCAGRAM 65
AGR LICPR 60
LANASEWA 56
ABSENTPH 50
AGRSCZBU 50
MUSLAEBU 50
ABSMYCPH 44
WORPOSLO 27
BIBAGLTU 20
BIBAGNTU 15

Q7

**Insects
(bees, silkworms, etc.)**

Abstracts

BIOABSPH 10295
ABSENTPH 9577
CENBIIMO 1000
APIABSCH 621
DOKLZVPR 550
ENTABSLO 306
ABSMYCPH 290
REVREFBU 180
GENABSLO 60
FAODOCRO 45
INDSCADE 40
VETDOCLO 40
PESTDOLLO 35
REFBYBSO 17
AGRSCZBU 15
LANBOWWA 10

Title citations

BIOABSPH 13868
ABSENTPH 3981
CURAWADU 1500
BYUSIZSO 519
APIABSCH 427
ABSMYCPH 163
KORSCTSE 128
NORTOSTO 115
BIBARABU 55
DOKLZVPR 50
BIBAGCTU 41
REVELMMA 29
AGRSCZBU 15
INDAGIPA 13
AGR LICPR 12
BIBESPTU 10
INDBIBMA 10
REORDELU 6

R1

**Freshwater fisheries
and fish culture**

Abstracts

SPOFIANA 1150
BIOABSPH 908
AQUSCFRO 870
TROPRILO 400
DOKLZVPR 310
ABSENTPH 179
GEOABSNO 150
FAODOCRO 140
FAODOCRO 100
SELWARWA 100
POLECBWA 62
PESTDOLLO 50
GENABSLO 48
MUSLAEBU 36
ABSMYCPH 22
PAKSCAKA 21
AGRSCZBU 10
REFBYBSO 10
AGR LICPR 7
BIOINFLJ 4

Title citations

BIOABSPH 1873
SELBIADA 1300
CURAWADU 1000
DOKLZVPR 650
KORSCTSE 121
ABSENTPH 85
BYUSIZSO 65
NORTOSTO 62
BIBREPCA 50
MUSLAEBU 28
INDBIBMA 25
DOKWASDU 21
BIOINFLJ 20
BIBARABU 14
BIBAGLTU 12
KORSCTSE 11
AGR LICPR 10
AGRSCZBU 10

R

Fisheries

Abstracts

BIOABSPH 10048
CENBIIMO 700
BIBINFBA 420
INDSCADE 120
BULSCAZA 12

Title citations

BIOABSPH 14767
PUBULWA 40
BULSCAZA 26
BIBAGATU 15

R2

Sea fisheries

Abstracts

AQUSCFRO 970
TROPRILO 500
OCEABSLA 300
FAODOCRO 150
SPOFIANA 145
WORFIARO 136
GEOABSNO 100
ABSENTPH 70
SELWARWA 50

BIBAGRAN	120	INFWEIFR	18	REVELMMA	11
MUSLAGBU	120	FICANSVE	15	BIBSCNBE	10
AGRSCZBU	110	MUSLAEBU	12	BIBCAFLI	
MUSLAEBU	100	GEOABSNO	10		
DAISCASH	75	MUSLAGBU	10		
PESTDOLO	65	AGRLICPR	6		
INFWEIFR	39				
FAODOCRO	30	<i>Title citations</i>		V1	
PAKSCAKA	29				
FICANSVE	22	FRAKALLU	865		
TROABSAM	16	CURAWADU	300	Food microbiology, hygiene	
BIOINFLJ	15	BYUSIZSO	194	and toxicology	
AGRLICPR	14	DOKWASDU	161		
TROPRILO	10	ABSAGHBE	100	<i>Abstracts</i>	
		DOKLZTPR	100		
<i>Title citations</i>		BYUSIRSO	36	ZEILEFFR	3000
		AGRSZBU	25	LISINSPR	2200
LANZEIBR	4000	MUSLAEBU	24	FOOSCTSH	953
BYUSIRSO	2496	BIBARABU	20	DAISCASH	850
DOKLZTPR	1100	KORSCTSE	11	TROPRILO	800
BYUSIZSO	377	AGRLICPR	10	BIOABSPH	799
ABSAGHBE	300			EXME17AM	750
CURAWADU	300			MICABALO	700
BIBPFLBE	200			ABSMYCPH	684
DOCAGRAM	151			EXME46AM	500
AGRSCZBU	110			ABSCUSLE	443
PRZDOCPO	110			AQUSCFRO	420
MUSLAEBU	100	Food science and technology		EXME30AM	300
TROPFLBE	80			REVREFBU	251
AGRLICPR	61	<i>Abstracts</i>		BYUKAVSO	209
BIBARABU	50			PESTDOLO	200
BIBAGLTU	48	BULBIIPA	11700	MUSLAEBU	160
REORDELU	44	CHEABSCO	4994	ABSENTPH	130
INDAGIPA	37	NYTBIOHO	750	LITBULBH	93
KORSCTSE	34	CURBISTO	745	GENABSLO	72
BIBAGNTU	27	ANAABSLO	620	IDKLEVMU	50
MUSLAGBU	27	LANBOWWA	164	IDKBOBRR	50
BIBAGCTU	25	FOOBRNE	120	MUSLAKBU	50
BIBAGATU	23	JOUINBLO	85	VITISWSI	41
BULSCAZA	23	ABSMYCPH	30	FAODOCRO	40
BIOINFLJ	22	AGRSCZBU	25	KEYTUSAN	26
BULBILPA	20	BULSCAZA	24	AMEJOEDA	20
BOLBIBRE	14	INFWEIFR	23	GRAACESE	18
LANASEWA	14	PAKSCAKA	19	DOKLFYPR	12
		ABSENTPH	18		
		AGRRESPR	18	<i>Title citations</i>	
		FICANSVE	15		
		BERBIBHE		INDMEDBE	1200
		INTNUIWI		BIOABSPH	1179
U2				BIBKEKLE	1000
Farm buildings		<i>Title citations</i>		INDBIBMA	500
				ABSMYCPH	299
<i>Abstracts</i>		BIBAGRBE	13677	IDKBOBRR	250
		INTDOEWI	5000	BIORETBI	211
LANBAUBR	1250	CURAWADU	600	LISINSPR	200
DOKLZTPR	1000	HELYLMHE	209	KORSCTSE	151
CENBIIMO	800	BIBJUCBE	200	DAISCASH	150
ABSAGHBE	500	PUDBULWA	101	MUSLAEBU	130
REVREFBU	365	PROINSAS	48	COMFIAWA	98
FARBUDKE	170	ABSENTPH	30	IDKLEVMU	50
PESTDOLO	60	BIBAGCTU	28	ABSENTPH	28
CONRURPA	50	AGRSCZBU	25	VITISWSI	14
DAISCASH	50	NORTOSTO	23	NORTOSTO	13
FAODOCRO	37	ABSMYCPH	19	BOLBIBRE	11
AGRSCZBU	25	BULSCAZA	13	DOKLFYPR	6

V2
Food engineering and packaging

Abstracts

LISINSPR	4200
FOOSCTSH	2747
INFVERBE	2300
BULINIPA	1950
BIOABSPH	1551
PACBULDA	1100
ABSCUSLE	764
PACABSLE	750
TROPRILO	700
DAISCASH	450
IDKLEVMU	397
REVREFBU	389
MUSLAEBU	260
MICABALO	140
FORHAIKO	123
TESGRPLA	115
FAODOCRO	95
GRAACESE	76
AQUSCFRO	60
LITBULBH	58
BYUKAVSO	36
PESTDOLO	15

Title citations

BIOABSPH	2188
INFVERBE	2000
LISINSPR	800
KORCTSE	403
IDKLEVMU	397
COMFIAWA	234
MUSLAEBU	120
DAISCASH	50
BIBARABU	20
FORHAIKO	20
BIORETBI	13
NORTOSTO	10

V3

Alcoholic and non-alcoholic beverages

Abstracts

LISINSPR	3500
CHEABSCO	2269
FOOSCTSH	1869
CURBISTO	1003
MONBRABE	735
BULOIVPA	323
MICABALO	303
ABSMYCPH	208
REVREFBU	190
BIOABSPH	144
MUSLAEBU	140
LITBULBH	127
VITISWSI	82

CLAABANB	60
TROPRILO	50
AMEJOEDA	48
BIOINFLJ	30
ABSCUSLE	29
WEINWIWI	22
AGRSCZBU	15
FAODOCRO	15
PESTDOLO	15
IDKLEVMU	10

Title citations

LISINSPR	400
KORCTSE	315
CURAWADU	300
BIOABSPH	217
WEINWIWI	121
MUSLAEBU	120
ABSMYCPH	75
VITISWSI	50
BIBARABU	45
BRAACURI	41
BIORETBI	31
BOLDOCRI	23
AGRSCZBU	15
BIBAGNTU	10
IDKLEVMU	10

V4

Fruit, vegetable and nut products

Abstracts

LISINSPR	3100
FOOSCTSH	1528
REVREFBU	579
BIOABSPH	453
BULBIIWE	400
CURBISTO	356
TROPRILO	200
MUSLAEBU	180
MITKLOKL	125
LITBULBH	115
ABSMYCPH	111
ABSCUSLE	93
TROABSAM	57
IDKLEVMU	50
PESTDOLO	50
FAODOCRO	35
GRAACESE	25
ABSENTPH	23
AMEJOEDA	20
BIOINFLJ	19
TESGRPLA	12
AGRSCZBU	10

Title citations

MITKLOKL	600
BIOABSPH	570
LISINSPR	300
KORCTSE	280

BIORETBI	263
MUSLAEBU	140
IDKLEVMU	50
ABSMYCPH	47
BIBAGCTU	23
NORTOSTO	12
AGRSCZBU	10

V5

Cocoa and chocolate products

Abstracts

LISINSPR	1300
FOOSCTSH	162
ABSMYCPH	84
ABSCUSLE	74
MUSLAEBU	48
LITBULBH	34
IDKLEVMU	25
FAODOCRO	20
JOUAMOCH	12
PESTDOLO	10

Title citations

LISINSPR	200
MUSLAEBU	34
ABSMYCPH	33
KORCTSE	29
IDKLEVMU	25
BIORETBI	12

V6

Sugars, syrups, starches and candy

Abstracts

LISINSPR	2000
SUGINATI	1550
INFGETDE	1150
FOOSCTSH	1129
INTSUJHI	861
CURBISTO	570
ZEIZUCBE	468
MUSLAEBU	320
ABSCUSLE	179
LITBULBH	80
TROABSAM	65
TROPRILO	50
BIOABSPH	20
FAODOCRO	20
BIOINFLJ	15
IDKLEVMU	15
ABSENTPH	10
PESTDOLO	10

Title citations

BRAACURI	316
CURAWADU	300

LISINSPR	200
MUSLAEBU	120
KORCTSE	87
BIBAGLTU	35
BIBARABU	32
BIOABSPH	26
BIBAGCTU	17
IDKLEVMU	15
BIORETBI	14

V7

Cereals and bakery products

Abstracts

LISINSPR	2500
FOOSCTSH	1451
FLOMIBRI	1200
INFGETDE	1150
CURBISTO	901
TROPRILO	200
MUSLAEBU	180
BIOABSPH	153
REVREFBU	89
BIOINFLJ	72
PESTDOLO	70
ABSMYCPH	52
TROABSAM	48
LITBULBH	45
ABSCUSLE	36
DAISCASH	20
FAODOCRO	15
ABSENTPH	11
IDKLEVMU	10

Title citations

KORCTSE	350
CURAWADU	300
LISINSPR	300
BIORETBI	188
BIOABSPH	182
MUSLAEBU	120
BIBAGLTU	27
BIBAGATU	22
BIBAGNTU	18
BIOINFLJ	12
IDKLEVMU	10
REORDELU	6

V8

Fats, oils and margarine

Abstracts

LISINSPR	3500
REVFRCPA	1500
TROPRILO	1000
FOOSCTSH	573
OLEREIPA	524
GRAACESE	316

CURBISTO	146
JOUAMOCH	146
BIOABSPH	128
MUSLAEBU	80
ABSCUSLE	65
IDKLEVMU	40
TROABSAM	37
FAODOCRO	35
LITBULBH	34
MILCHWKI	30
PESTDOLO	30
DAISCASH	25

Title citations

LISINSPR	400
BIOABSPH	134
BYUSIZSO	77
KORCTSE	63
IDKLEVMU	40
MUSLAEBU	40
COMFIAWA	39
BIBARABU	17
BIBAGATU	16
BIBAGLTU	13
BIORETBI	10

V9

Milk and dairy products

Abstracts

LISINSPR	2800
FOOSCTSH	2212
MILCHWKI	1310
DAISCASH	1075
LANBOWWA	268
BIOABSPH	243
FOOBRNE	150
MUSLAEBU	120
EXMEI7AM	100
LITBULBH	98
BIOINFLJ	75
PESTDOLO	60
IDKLEVMU	50
INDSCADE	50
TROPRILO	50
REVREFBU	47
FAODOCRO	45
ABSCUSLE	41
ABSMYCPH	21
JOUAMOCH	20
ABSENTPH	15
AGRSCZBU	15
BYUKAVSO	12

Title citations

BYUSIZSO	558
LISINSPR	400
KORCTSE	308
BIOABSPH	290
LANASEWA	200

INDBIBMA	150
DAISCASH	125
MUSLAEBU	80
PUDBULWA	69
BIBREPCA	60
IDKLEVMU	50
BIBAGCTU	36
BIBARABU	34
BIORETBI	30
BIBAGNTU	27
BIBAGLTU	26
NORTOSTO	20
REORDELU	17
AGRSCZBU	15
BOLBIBRE	14

V10

Eggs and egg products

Abstracts

LISINSPR	400
UITPLUBE	300
FOOSCTSH	259
BIOABSPH	110
FAODOCRO	45
PESTDOLO	35
MUSLAEBU	30
REVREFBU	28
ABSCUSLE	22
FAODOCRO	20
JOUAMOCH	16
LITBULBH	16
INDSCADE	10
IDKLEVMU	5
TROPRILO	5

Title citations

INDBIBMA	250
UITPLUBE	200
BIOABSPH	153
LANASEWA	56
LISINSPR	50
KORCTSE	48
BIBREPCA	40
BIBAGNTU	20
MUSLAEBU	20
BIBARABU	17
BIBAGLTU	13
NORTOSTO	12
IDKLEVMU	5

V11

Fish and marine products

Abstracts

CURBISTO	750
LISINSPR	600
FOOSCTSH	541

LITSSFFY	410	IDKLEV MU	40	LITBULBH	90
POLABSLA	220	AGRSCZBU	15	MUSLAEBU	80
AQUSCFRO	200	BIBARABU	14	LANBOWWA	73
WORFIARO	180	COMFIAWA	10	FAODOCRO	65
LANBOWWA	124			MICABALO	60
TROPRILO	100			ARCLANCA	50
BIOABSPH	84			DAISCASH	50
ABSCUSLE	54	V13		PESTDOLO	50
OCEABSLA	50			CLAABANB	40
MUSLAEBU	40	Food additives, spices,		JOUAMOCH	30
LITBULBH	38	condiments and prepared,		BIOINFLJ	28
PESTDOLO	35	synthetic and dietary foods		IDKLEV MU	15
IDKLEV MU	25			TROABSAM	15
OLEREIPA	20	<i>Abstracts</i>		AGRSCZBU	10
		EXME37AM	3000		
<i>Title citations</i>		LISINS PR	1500	<i>Title citations</i>	
COMFIAWA	810	FOOSCTSH	624	BIOABSPH	7998
WORFIARO	250	TROPRILO	400	INDMEDBE	5000
KORSCTSE	179	BIOABSPH	353	BIBAGRBE	3937
BIOABSPH	128	DAISCASH	170	INTDOEWI	1000
INDBIBMA	100	FAODOCRO	130	NUTABRAB	520
LISINS PR	50	ABSCUSLE	117	CURAWADU	250
BIORETBI	36	EXME30AM	100	BIBJUCBE	200
MUSLAEBU	30	LITBULBH	96	ABSENTPH	149
OCEABSLA	30	ABSMYCPH	60	PUDBULWA	104
IDKLEV MU	25	MUSLAEBU	60	LISINS PR	100
		MILCHWKI	45	BIBAGLTU	72
		IDKLEV MU	18	ABSMYCPH	65
		JOUAMOCH	16	MUSLAEBU	40
		REVREFBU	11	COMFIAWA	
V12		GRAACESE	10	BIBAGATU	28
		PESTDOLO	10	BIBAGNTU	16
Meat, poultry and game		<i>Title citations</i>		IDKLEV MU	15
		BIOABSPH	558	BIBAGCTU	11
<i>Abstracts</i>		KORSCTSE	328	AGRSCZBU	10
LISINS PR	2700	LISINS PR	200	KALSALHA	10
FOOSCTSH	1519	DIBAGLTU	55	KORSCTSE	6
CURBISTO	788	ABSMYCPH	43		
TROPRILO	300	MUSLAEBU	40	Y	
UITPLUBE	300	COMFIAWA	33		
ABSCUSLE	197	INDBIBMA	25	Environmental science	
BIOABSPH	171	BIBESPTU	23		
LITBULBH	152	DAISCASH	20	<i>Abstracts</i>	
FAODOCRO	144	IDKLEV MU	18	ABSHEEPH	12000
MUSLAEBU	120	BIORETBI	15	AIRPOARE	9000
BYUKAVSO	68			GEOABSNO	8660
REVREFBU	41	W		EXME46AM	5000
IDKLEV MU	40			BIOABSPH	4510
PESTDOLO	30	Human nutrition		HEAASPCH	2800
JOUAMOCH	24	<i>Abstracts</i>		CARSEWBR	2300
AGRSCZBU	15	NUTABRAB	1764	ABSENTPH	2218
ABSENTPH	13	BICABSPH	1187	CURBISTO	2092
BIOINFLJ	8	EXME17AM	1000	FOOSCTSH	943
		EXME29AM	750	DOKLOPPR	695
<i>Title citations</i>		LISINS PR	600	ABSMYCPH	649
KORSCTSE	310	ABSENTPH	520	ANAABSLO	340
INDBIBMA	300	ABSMYCPH	182	LANBOWWA	241
LISINS PR	300	MILCHWKI	170	POLABSLA	220
BIOABSPH	276	ABSCUSLE	123	PESTDOLO	200
UITPLUBE	200	TROPRILO	100	AQUSCFRO	185
BYUSIZSO	105			SPOFIANA	144
BIORETBI	92			PACBULDA	120
MUSLAEBU	60				
NORTOSTO	55				

PACABSLE	100	<i>Title citations</i>		BIBAGNTU	66
DAISCASH	90			BIBJUCBE	60
LANBAUBR	80	BIOABSPH	8044	PUDBULWA	47
NORTOSTO	72	BULSINPA	4850	BIBARABU	42
REVAEALO	65	AIRPOTPE	3000	BIBSIHPA	39
ABSAIWNE	50	BIBPFLBE	1700	HINVEGGE	30
FAODOCRO	45	POLLOOST	1427	BOLBIBRE	29
MICABALO	40	NORTOSTO	1224	DOKWASDU	25
LITBULBH	35	ABSENTPH	854	DOKLOPPR	25
BULSCAZA	32	CURAWADU	800	FICSIEPA	25
BIOINFLJ	26	LANREISU	679	BIORETBI	24
MILCHWKI	25	SCHLAEDU	600	REVAEALO	23
FICANSVE	21	DOKABLSE	500	CONILTU	21
REVAEBLO	21	BIBFOHRE	400	KALSALHA	15
TROPRILO	15	IWLKURKO	360	BIBESPTU	13
REVREFBU	13	ABSMYCPH	251	BOLDOCRI	10
GRAACESE	10	COMFIAWA	146	DAISCASH	10
IDKLEVMU	10	BIBAGLTU	143	IDKLEVMU	10
POLECBWA	10	HELYLMHE	124	REVAEBLO	8
AGRSCZBU	8	BIBAGCTU	94	AGRSCZBU	7
DOKLFYPR	8	BULSCAZA	76	DOKLFYPR	4
INFWEIFR	7	BIBAGATU	73		

APPENDICES

APPENDIX 1

The Questionnaire

A. G. R. I. S.

INTERNATIONAL INFORMATION SYSTEM
FOR THE AGRICULTURAL SCIENCES AND TECHNOLOGY

under the sponsorship of the
FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS

F. A. O.

Survey of the World Agricultural Documentation and Information Services

Please return before the 30th June 1972 to:

F.A.O.
FOOD AND AGRICULTURE ORGANIZATION
OF THE UNITED NATIONS

Documentation Centre
Room A 104

Via delle Terme di Caracalla

R O M E
Italy



In 1970, the Food and Agriculture Organization of the United Nations (FAO) established a Panel of Experts to study the desirability and feasibility of setting up an international information system for agricultural science and technology (AGRIS).

The Panel of Experts recommended that an AGRIS system be established under the sponsorship and overall coordination of FAO and that it should have a two-level structure based on the needs of users. These levels were :

- Level 1. A comprehensive and rapid bibliographic documentation service providing current awareness in all subject fields for which FAO has responsibility.
- Level 2. A network of specialized services, mostly already existing and including specialized information centres, analysis centres and data banks, with responsibility in depth for particular subject fields.

During 1971, a team of 20 experts made a detailed system design study for AGRIS Level One. The service is now in its pre-operational phase and is scheduled to become operational at the end of 1973.

In November 1971 the General Conference of FAO Member States endorsed the action taken by FAO towards the establishment of AGRIS Level One and the further study of Level Two.

In the implementation of AGRIS Level One and in the design studies for the AGRIS Level Two system, detailed, comprehensive and up-to-date information on the many documentation services that exist in agriculture and related subjects is essential. The results of the first AGRIS Survey were published in 1970. It is now necessary to update the Survey and this is the purpose of the present questionnaire. The results will be available.

G. Dubois
Chief,
Documentation Centre,
FAO

As you will see in the attached letter from the Chief of the Documentation Centre of FAO, it has been decided to update the Survey of the World Agricultural Documentation Services which was published in 1970 and contained information relating to the year 1969.

The original purpose of the Survey was to provide information essential to the preliminary studies of the Panel of Experts and though the establishment of the AGRIS system is now actively in progress, the need for up-to-date background information on the world's agricultural documentation remains.

The first edition of the Survey had to be completed within a very short time span. Both statistical and descriptive information was included, but it was possible only to make the latter available on microfiche.

In the second edition we hope to follow the general arrangement of the first, but to transfer the descriptive information to the printed text. In this way we believe the Survey will serve the needs of AGRIS and at the same time constitute a readily available and comprehensive source of information on the world's agricultural documentation services for users everywhere.

The first edition of the Survey was compiled by members of the Panel of Experts from a direct examination of the output of as many services as could be identified. It is unfortunately not possible to gather material for the second edition in this way and we are accordingly asking for your collaboration in this task. We believe you will agree that there is a real need for a comprehensive guide to the world's agricultural documentation services and that its value will depend to no small extent on its completeness.

We enclose a questionnaire in which we hope you will be able to provide information relating to the output of your service for 1971. We have tried to make the questions as self-explanatory as possible and hope you will have no serious difficulty in completing it. We must apologise for its apparent length.

As you will see, the questionnaire is divided into four main fields.

Field 2 deals with sources of input and coverage by country, language and subject. Coverage by subject presents problems of faceting. Here we should like to ask you to indicate only the number of abstracts or document titles for the main target areas covered by your service. For example, if your service deals with Plant Breeding, it will also deal with crop plants. Give the number of abstracts or document titles under Plant Breeding only, and do not attempt to indicate the number of abstracts or document titles under crops also. It will help us greatly if you make the written description of your subject coverage as detailed as possible. If your subject coverage includes the whole of agriculture in general, then we would like to know the number of abstracts or document titles in each subject area also.

P.J. Boyle
Commonwealth Bureau of Pastures
and Field Crops,
Hurley,
MAIDENHEAD
Berks. SL6 & LR,
England

H. Buntrock
Information and Documentation Centre
(CID)
29, rue Aldringen
LUXEMBOURG

AGRIS Survey of the World Agricultural Documentation Services

QUESTIONNAIRE

1971 Output

Please place a tick in the relevant box, otherwise use block letters.

FIELD 1. GENERAL DESCRIPTIVE DATA

1.1 (a) What is the full title of the publication or other main product issued by the service? (e.g. Food Science and Technology Abstracts, Fruits d'Outre-Mer etc.) Where the publication or output is issued in more than one section, please complete a separate questionnaire for each (e.g. Referativnyi Zhurnal-Zaschita Rastenii, Referativnyi Zhurnal-Zhivotnovodstvo).

.....
.....
.....

(b) In what year was it first issued?

1.2 What is the name and full postal address of the issuing or sponsoring organization?

.....
.....
.....

1.2.1 How is the issuing or sponsoring organization financed?

by government	<input type="checkbox"/>	by a professional or industrial association	<input type="checkbox"/>
by a university	<input type="checkbox"/>	as a commercial enterprise	<input type="checkbox"/>

1.2.2(a) Does the issuing or sponsoring organization belong to one country only?

(b) Or is it multinational (i.e. belonging to two or more countries)?

(c) Please specify the country(ies)

1.3 What is the name and full postal address of the publisher (if different from 1.2)?

.....
.....
.....

1.4 Associated Library

(a) If the service has an associated library, what is its name and full postal address?

(b) How many journals are taken by the associated library?

FIELD 2. INPUT

2.1 Source of input

- (a) Is all the input derived from the primary (i.e. original) literature? Yes No
- (b) If no, what percentage of the input is derived from other secondary sources (e.g. other abstract journals, bibliographic title services, etc.)? %

2.2 (a) How many journals are regularly scanned to produce the output ?

- (b) Is a list of the publications scanned available? Yes No

2.3 Coverage

2.3.1 Coverage by country

- (a) Is the primary literature of the world covered?
- (b) Or is the coverage limited to the primary literature of one country or of a specific group of countries only?
- (c) If the coverage is limited, please specify which country(ies)
.....

2.3.2 Coverage by languages

- (a) Is the primary literature in all the major languages covered? Yes No
- (b) If no, please indicate which languages are covered
.....

2.3.3 Coverage by subject

- (a) Does the subject coverage include the whole of agriculture in general?
- (b) Or is the coverage limited to specific subject areas only?
- (c) If the coverage is limited, please write down in as full detail as possible what subjects are covered
.....
.....
.....

(d) Please write in the boxes provided the number of abstracts and/or document titles published in 1971 in each of the following subject areas (p. 3-6). If possible, services which cover the whole field of agriculture should give both the total number of abstracts and/or titles issued and also the number within each subject area.

2.3.3(d) continued

	No. of abstracts	No. of document titles
A Agriculture in general (for those services covering the whole of agriculture)	<input type="text"/>	<input type="text"/>
B Agricultural literature, documentation and library services	<input type="text"/>	<input type="text"/>
C Agricultural research and research methodology	<input type="text"/>	<input type="text"/>
D Agriculture of warm climates. Tropical agriculture	<input type="text"/>	<input type="text"/>
E History and geography of agriculture		
E1 History of agriculture	<input type="text"/>	<input type="text"/>
E2 Geography of agriculture	<input type="text"/>	<input type="text"/>
F Agricultural education		
F1 Education, teaching	<input type="text"/>	<input type="text"/>
F2 Extension and advisory work	<input type="text"/>	<input type="text"/>
G Agricultural administration and legislation	<input type="text"/>	<input type="text"/>
H Agricultural economics and rural sociology		
H1 Agricultural policy, macroeconomics (e.g. supply and demand, prices, marketing, trade, finance, credit, cooperation)	<input type="text"/>	<input type="text"/>
H2 Microeconomics (economics of production)	<input type="text"/>	<input type="text"/>
H3 Rural sociology	<input type="text"/>	<input type="text"/>
K Plant production in general		
K1 Agricultural meteorology and climatology	<input type="text"/>	<input type="text"/>
K2 Soil science. Soil conditions in general	<input type="text"/>	<input type="text"/>
K3 Tillage and soil cultivation	<input type="text"/>	<input type="text"/>
K4 Plant nutrition and fertilizers	<input type="text"/>	<input type="text"/>
K5 Plant breeding	<input type="text"/>	<input type="text"/>
L Plant protection		
L1 Diseases and non-biogenic plant injuries	<input type="text"/>	<input type="text"/>
L2 Pests	<input type="text"/>	<input type="text"/>
L3 Weeds	<input type="text"/>	<input type="text"/>

		No. of abstracts	No. of document titles
M	Crops		
M1	Cereals (wheat, barley, sorghum, maize, rice, etc.)	<input type="text"/>	<input type="text"/>
M2	Pulses (Phaseolus, cowpea, pea, etc.)	<input type="text"/>	<input type="text"/>
M3	Roots and tubers (potato, sweet potato, yam, taro, cassava, artichoke, etc.)	<input type="text"/>	<input type="text"/>
M4	Fibres (sisal, fibre flax, kenaf, jute, cotton, hemp, etc.)	<input type="text"/>	<input type="text"/>
M5	Oilseeds (groundnuts, soyabean, oil palm, coconut, olive, sunflower, rape, safflower, oilseed flax, etc.)	<input type="text"/>	<input type="text"/>
M6	Sugar crops (sugar cane, sugar beet)	<input type="text"/>	<input type="text"/>
M7	Vegetables (lettuce, tomato, cabbage, cucumber, carrot, etc.)	<input type="text"/>	<input type="text"/>
M8	Temperate fruits and nuts (apple, cherry, almond, pecan, chestnut, grape, hazel nut, strawberry, blackcurrant, etc.)	<input type="text"/>	<input type="text"/>
M9	Tropical fruits and nuts (citrus, banana, pineapple, macadamia, mango, etc.)	<input type="text"/>	<input type="text"/>
M10	Stimulants and medicinals (tobacco, tea, coffee, cacao, pepper, nutmeg, chili, quinine, mint, etc.)	<input type="text"/>	<input type="text"/>
M11	Ornamentals (flowers, shrubs, lawns, sports turf, etc.)	<input type="text"/>	<input type="text"/>
M12	Other industrial crops (rubber, etc.)	<input type="text"/>	<input type="text"/>
N	Herbage crops, fodder crops, grasslands and rangelands	<input type="text"/>	<input type="text"/>
O	Forestry		
O1	Wood production (silviculture, phytopathology, forest protection, forest engineering, etc.)	<input type="text"/>	<input type="text"/>
O2	Wood technology and wood industries (forest products, wood and wood by-products, etc.)	<input type="text"/>	<input type="text"/>
P	Animal husbandry		
P1	Animal breeding and genetics	<input type="text"/>	<input type="text"/>
P2	Animal nutrition (feeding, composition and nutritive value of feeds, physiology of nutrition, etc.)	<input type="text"/>	<input type="text"/>
P3	Veterinary medicine and hygiene	<input type="text"/>	<input type="text"/>

	No. of abstracts	No. of document titles
Q Domestic animals		
Q1 Equidae		
Q2 Cattle and other large ruminants		
Q3 Sheep, goats and other small ruminants		
Q4 Pigs		
Q5 Other mammals (fur bearers, laboratory animals, etc.)		
Q6 Poultry		
Q7 Insects (bees, silkworms, etc.)		
R Fisheries		
R1 Freshwater fisheries and fish culture		
R2 Sea fisheries		
S Game and hunting		
T Land development and conservation		
T1 Land use, surveys and development		
T2 Soil and water conservation		
U Machinery and buildings		
U1 Agricultural machinery and equipment		
U2 Farm buildings		
V Food science and technology		
V1 Food microbiology, hygiene and toxicology		
V2 Food engineering and packaging		
V3 Alcoholic and non-alcoholic beverages		
V4 Fruit, vegetable and nut products		
V5 Cocoa and chocolate products		
V6 Sugars, syrups, starches and candy		
V7 Cereals and bakery products		
V8 Fats, oils and margarine		
V9 Milk and dairy products		

	No. of abstracts	No. of document titles
V10 Eggs and egg products	<input type="text"/>	<input type="text"/>
V11 Fish and marine products	<input type="text"/>	<input type="text"/>
V12 Meat, poultry and game	<input type="text"/>	<input type="text"/>
V13 Food additives, spices, condiments and prepared, synthetic and dietary foods	<input type="text"/>	<input type="text"/>
W Human nutrition	<input type="text"/>	<input type="text"/>
Y Environmental science	<input type="text"/>	<input type="text"/>

2.3.4 Data base (card file, magnetic tape etc.)

- (a) Do you produce more references than you actually publish? Yes No
- (b) If yes, what is the total number of references you have produced in 1971?
- (c) What is the cumulative number of references in your data base up to and including 1971?

FIELD 3. DATA HANDLING METHODS

Which method of data handling do you use?

- Manual (this includes vertical cards, peek-a-boo cards, manually sorted cards, etc.)
- Mechanical (paper tapes, machine punched cards, etc.)
- Computerized (electronic data processing)

FIELD 4. OUTPUT

4.1 Output data

- (a) Does the output consist of:
- Title citations only (i.e. bibliographic references)?
- Title citations plus mini abstracts (set of keywords)?
- Title citations plus informative or indicative abstracts?
- (b) Does your output include addresses of authors? Yes No

4.2 Language(s) of titles

Are document titles given in

- (a) The original language(s) only?
- (b) In translation only? Specify translation language(s)
- (c) In both the original language(s) and in translation?
- Specify translation language(s)

4.3 Language(s) of abstracts

If abstracts are published, specify the language(s) in which they are written,
.....

4.4 Arrangement

- (a) How is the output arranged?
- by subject by author
- by titles of the documents by titles of primary journals scanned
- by other arrangements (please specify)
- (b) If by subject, is it arranged
- by UDC by own classification
- by other arrangements (please specify)

4.5 Indexes

4.5.1 Author_index

- (a) Is an author index published? Yes No
- (b) If yes, how often is it published? Every months
- (c) Is a cumulative author index published? Yes No
- (d) If yes, how often is it published? Every months

4.5.2 Subject_index

- (a) Is a subject index published? Yes No
- (b) If yes, how often is it published? Every months
- (c) Is a cumulative subject index published? Yes No
- (d) If yes, how often is it published? Every months
- (e) What is the average number of subject index terms per reference?
- (f) Is a controlled vocabulary (thesaurus) used? Yes No
- (g) What type of subject index is used?
- Conventional alphabetical KWOC KWIC
- Other (please specify)

4.5.3 Geographical index

- (a) Is a geographical index published? Yes No
(b) If yes, how often is it published? Every months

4.5.4 Other indexes

If other types of index (e.g. taxonomic) are published, please specify

4.6 Output form

In what form(s) is the output issued?

- | | | | |
|----------------------------------|--------------------------|---|--------------------------|
| Journal | <input type="checkbox"/> | Card service | <input type="checkbox"/> |
| Computer print-out | <input type="checkbox"/> | Microforms
(microfilm, microfiche, etc.) | <input type="checkbox"/> |
| Manually sorted punched
cards | <input type="checkbox"/> | Machine punched cards | <input type="checkbox"/> |
| Punched tapes | <input type="checkbox"/> | Magnetic tapes | <input type="checkbox"/> |
| Other (please specify) | | | |

4.7 Additional services

What additional services are provided from the data base?

- SDI (selective dissemination of information)
Retrospective retrieval searches
Other services (please specify)

4.8 Periodicity of the output

- (a) Is the output issued regularly? or irregularly?
(b) If regularly, how often? Every weeks/ months

4.9 What is the print run of the published output? copies per issue

4.10 Availability

4.10.1(a) Is the output available for sale? or free?

(b) If for sale, what is the annual price ?

- in country of issue (in the currency of the issuing country)
- in country of issue (in \$ US)
- outside country of issue (in the currency of the issuing country)
- outside country of issue (in \$ US)

(c) If other pricing arrangements exist, please specify

4.10.2 Back-up services

In addition to its principal normal output, what other services are also provided?

- Full size copies of original documents
- Microcopies of original documents
- Library loans of original documents
- Translations of original documents

If a translation service is provided, please specify from what and into what languages :

From

Into

ADDITIONAL NOTES, COMMENT OR INFORMATION

APPENDIX 2

Country codes (in part according to UNISIST/ICSu — AB Reference Manual 1971)

AFGHANISTAN	AF	GREECE	GR	NORTH VIETNAM	VN
ALBANIA	AN	GUATEMALA	GU	NORWAY	NO
ALGERIA	AG	GUINEA	GI	O.A.M.P.I.	AN
ANDORRA	AD	GUYANA	GY	PAKISTAN	PK
ARGENTINA	AR	HAITI	HI	PANAMA	PM
AUSTRALIA	AU	HONDURAS	HO	PARAGUAY	PG
AUSTRIA	OE	HUNGARY	HU	PERU	PE
BAHREIN	BB	ICELAND	IS	PHILIPPINES	RP
BARBADOS	BD	I.I.B.	IB	POLAND	PO
BELGIUM	BE	INDIA	IN	PORTUGAL	PT
BHUTAN	BH	INDONESIA	ID	QATAR	QA
BOLIVIA	BO	INTERNATIONAL	IG	RHODESIA	RH
BOTSWANA	BT	IRAN	IR	ROMANIA	RU
BRAZIL	BR	IRAQ	IQ	RWANDA	RW
BULGARIA	BG	IRELAND	EI	SAN MARINO	SM
BURMA	BU	ISRAEL	IL	SAUDI ARABIA	SA
BURUNDI	BI	ITALY	IT	SENEGAL	SN
BYELORUSSIA	SB	IVORY COAST	CI	SIERRA LEONE	SL
CAMBODIA	CD	JAMAICA	JM	SINGAPORE	SG
CAMEROON	KA	JAPAN	JA	SOMALIA	SO
CANADA	CA	JORDAN	JO	SOUTH AFRICA	ZA
CENTRAL AFRICAN REPUBLIC	ZR	KENYA	KE	SOUTH KOREA	KS
CEYLON	CL	KUWAIT	KU	SOUTH VIETNAM	VS
CHAD	TS	LAOS	LA	SOUTH YEMEN	SY
CHILE	CE	LEBANON	LB	SPAIN	ES
CHINA	RC	LESOTHO	LS	SUDAN	SD
CHINA/TAIWAN	CT	LIBERIA	LR	SWEDEN	SW
COLOMBIA	CO	LIBYA	LY	SWITZERLAND	CH
COMECON	CN	LIECHTENSTEIN	FL	SYRIA	SR
CONGO/BRAZZAVILLE	CF	LUXEMBOURG	LU	TANZANIA	TA
CONGO/KINSHASA	CB	MALAGASY REPUBLIC	MD	THAILAND	TH
COSTA RICA	CR	MALAWI	MW	TOGO	TO
CUBA	CU	MALAYSIA	MY	TRINIDAD AND TOBAGO	TD
CYPRUS	CY	MALDIVE ISLANDS	MV	TUNISIA	TA
CZECHOSLOVAKIA	CS	MALI	MJ	TURKEY	TR
DAHOMY	DA	MALTA	ML	UGANDA	UG
DENMARK	DK	MAURETANIA	MT	UKRAINE	UU
DOMINICAN REPUBLIC	DR	MAURITIUS	MS	UNITED KINGDOM	GB
ECUADOR	EC	MEXICO	MX	UPPER VOLTA	UV
EGYPT	ET	MONACO	MC	URUGUAY	UY
EL SALVADOR	SL	MONGOLIA	MO	U.S.A.	US
ETHIOPIA	EA	MOROCCO	MA	U.S.S.R.	SU
EUROPEAN COMMUNITY	EY	MUSCAT AND OMAN	MU	VATICAN STATE	CV
FINLAND	SF	NEPAL	NP	VENEZUELA	VE
FRANCE	FR	NETHERLANDS	NL	VIETNAM	VT
GABON	GA	NEW ZEALAND	NZ	WESTERN SANGA	WS
GAMBIA	GE	NICARAGUA	NA	YEMEN	YE
GERMANY (DEM. REP.)	DL	NIGER	NI	YUGOSLAVIA	YU
GERMANY (FED. REP.)	DT	NIGERIA	NN	ZAMBIA	ZB
GHANA	GH	NORDIC PATENTS	NC		
		NORTH KOREA	EN		

APPENDIX 3

Language codes (according to UNISIST/ICSU-AB Reference Manual 1971)

Name of language	Code	Name of language	Code	Name of language	Code
Afrikaans	AF	Greek	GK	Panjabi	PA
Albanian	AB	Gujarati	GU	Persian	PE
Arabic	AN			Polish	PO
Armenian	AR	Hebrew	HE	Portuguese	PT
Azerbaidzhan	AZ	Hindi	HI		
		Hungarian	HU	Romanian	RO
				Russian	RS
Bengali	BN	Icelandic	IC		
Bulgarian	BU	Indonesian	ID	Serbian	SR
Byelorussian	BE	Interlingua	IG	Serbo-Croatian	SR
		Italian	IT	Siamese	TH
Chinese	CH			Slovak	SL
Croatian	SR	Japanese	JA	Slovenian	SN
Czech	CZ			Spanish	SP
		Kazakh	KA	Swedish	SS
Danish	DA	Kirgiz	KI		
Dutch	NE	Korean	KO	Tadzhik	TA
English	EN			Tagalog	TG
Estonian	ES	Latin	KZ	Thai	TH
		Latvian	LA	Turkish	TK
		Lithuanian	LI	Turkmen	TU
Faroese	FA				
Finnish	FI	Macedonian	LU	Ukrainian	UK
French	FR	Malay	MA	Urdu	UU
		Moldavian	MO	Uzbek	UZ
Gaelic	GA	Mongolian	MG		
Georgian	GR			Vietnamese	VI
German	GE	Norwegian	NO		

