LITERATURE CITED

CHRISTENSEN, C. M. 194 Minneapolis. 116 pp. 1943. Common Edible Mushrooms. University of Minnesota Press.

GROVES, J. W. 1951. Mushroom Collecting for Beginners. Dept. of Agriculture. Ottawa (Publ. 861). 29 pp.

GUSSOW, H. T. and ODELL, W. S. 1927. Mushrooms and Toadstools. King's Printer, Ottawa. 274 pp.

HARDY, G. A. 1947. Some Mushrooms and Other Fungi of British Columbia. B. C. Provincial Museum, Victoria (Handbook No. 4). 96 pp.

HEALD, F. D. 1943. Introduction to Plant Pathology. McGraw-Hill Book Co., N. Y. 603 pp.

KRIEGER, L. C. C. 1920. Common Mushrooms of the United States. National Geographic pp. 387-439.

RAMSBOTTOM, J. 1945. Poisonous Fungi. King Penguin Books, N. Y. 32 pp.

SMITH. Mushrooms. Sawyer's Inc. of Portland, Oregon (includes Viewmaster slides).

THOMAS, W. S. 1928. Field Book of Common Mushrooms. C. P. Putnam's Sons, N. Y. 335 pp. TRANSEAU, E. N., SAMPSON, H. C., TIFFANY, L. H. 1940. Textbook of Botany. Harper and Brothers, N.Y. 812 pp

How to Collect and Press Plants

By GEORGE F. LEDINGHAM, Regina

EDITOR'S NOTE: Some members have asked for a series of short informative articles explaining how to begin the study of plants, birds, insects, etc. In response to one of these requests I have prepared a few notes on pressing plants. In this issue, we also have some notes from a series of three lectures given to the Prince Albert Natural History Society by A. O. Aschim of "Collecting Moths and Butterflies As a Hobby," and a short article on "The Amateur Astronomer' by John Hodges of the Regina Astronomical Society. In the September Blue Jay, we hope to have a report of an interview with Maurice Street telling how to become a bird watcher.

Collecting plants means different things to different people. Some people collect plants and grow them in their garden. When this is done on a large scale, we have an arboretum. Other people collect plants for the purpose of pressing them and making a collection of dried specimens. Such a collection arranged in plant families and available for reference or other scientific study is known as a herbarium.

Why don't you make a collection of the plants growing in your district? You will find plant collecting an interesting hobby. You will find, too, that your interest in plants grows as you learn more about them. Dried plants, if properly cared for, will keep indefinitely and if they are correctly identified you will have something really valuable. people will want to see your collection, for this is the easiest way for them to learn the correct names of the plants.

The first step is the study of the specimen in the field. Here you must first look around to be sure that there are more than just one plant of this kind growing in the area. Now you can take out your notebook and assign a number to the plant. Describe the plant if you do not know its name and mention any variations that you notice in the plants. It is

well to make notes on color for this scmetimes changes in drying. Nov record the date and the location. is important, too, to record the other plants which are growing in this spot for plants do tend to grow it recognized associations.

The second step is the collecting Except in the case of trees or shrub where a part of the branch bearin fruit or flowers is sufficient, the en tire plant, including roots, should b taken. If the ground is soft and th plant is an annual, pulling the plan may give sufficient roots. If the plan is a perennial, especially if it spread by underground rootstocks, or if th ground is hard as it usually is c our open grassy prairies, then trowel or other digging tool must be used to prevent breaking of the plan

The third step is the pressing. Or does not need elaborate apparati for this job. Some use big old book with soft absorbent paper, and you are only collecting a few plan this will do very well for you. Mo collectors use old newspapers; te a standard newspaper sheet in ha and fold it once to give a size of n more than 12 by 18 inches. Sheets newspaper, each containing specimen, may be separated by blo ting paper or corrugated cardboar This pile of papers and driers mu be weighted down by some flat weig

by a stone about 15 pounds on of a board. After 12 hours in the ess the plants should be moved to other dry place in the book or ess. Rapid drying of the plants is portant. The blotters should be parated and dried thoroughly so at they can be used again. Length time in the press and the number changes required will depend on e kind of plant and must be learn-by experience. In humid countries tificial heat is necessary to speed the drying process.

An important step in preparing od specimens is the arranging of e material as it is placed in the ess or while it is still pliant. aves should be placed so that the wer surface of some will show. the plant is very thick and leafy, dicious trimming will have to be ne so that there will not be too uch overlapping of parts; the lower of the leaf stalk or branch ould be left to show that some parts ave been removed. If the plant is ore than 16 inches tall it may be ent in a V-shaped or N-shaped anner.

Plant collectors usually take at ast two of each plant they collect. his is because, in addition to making e record and placing a specimen their herbarium, they will want to not one specimen to an expert to we the identification verified or ey will want to give the specimen a large herbarium where it can seen and used by many botanists. Perhaps you hesitate to make a

llection of the plants of your area cause you think that you could not entify the plants correctly. This is p excuse because your plants will identified free of charge by any ptanist with a herbarium. Simply ut your collection number and the ta from your field notes with each ecimen, place the plants, each in own newspaper folder, between irdboards, tie them tightly together and mail them to the nearest herbarm. You should have a duplicate of ch specimen, for the herbarium ill keep the plants sent in as payent for identifying them for you. ou may send plants to the herbaria the University of Saskatchewan

Saskatoon or to Regina College Regina. Plants are usually mounted on

Plants are usually mounted on od white paper $(11\frac{1}{2} \text{ by } 16\frac{1}{2} \text{ in.})$.

Sometimes the plants are glued or pasted to the mounting paper but in some herbaria the plants are simply held to the paper by thin strips of gummed linen. Each herbarium sheet must have a label which should be about $4\frac{1}{2}$ by $2\frac{3}{4}$ inches. This label will bear the collection number and the name (both scientific and common). It will give the location and habitat of the collection and may give other details about the environment and tell what other plants were growing in the area. The label will also bear the name of the collector and tell who identified the specimen. You may write or type your own labels, or have them printed for you.

All this may sound like a lot of work but the time spent is worth-while because as you work with plants you learn more about them. You will learn more than just the names of the plants. You will learn that each kind has a certain range of variations and that each has soil and climate preferences. You will not only be making a contribution to our knowledge of plants but you will be developing a most rewarding hobby.

To learn more about the plants you collect send to Information Service, Department of Agriculture, Ottawa, for your copy of Publication No. 983, "Wild Plants of the Canadian Prairies," by A. C. Budd. Price \$1.50.

INVITATION TO VISIT DRYDEN, ONTARIO

Mrs. Laura A. Howe, an enthusiastic member of our society from Dryden, Ontario, writes to say that since Dryden is on the Trans-Canada Highway, with lake and marsh, flora and fauna close at hand, she would be happy to take any of our members on side-jaunts anytime from May to freeze-up. Her phone number is 170, and we hope that some of our members will have the opportunity to take advantage of this attractive invitation.

NOTE: The Museum would like to have a complete set of the original publication: **Spade and Screen.** Any person with extra copies is asked to correspond.