

Bat Not Rodent

The bat, though it somewhat resembles rats and mice in appearance and its nocturnal habits, does not belong to the order of rodents which includes them. Bats form an entirely separate order of mammals, the Chiroptera, distinguished by the wing or membrane which extends from the body to the ends of the feet. Our bats are all insectivora, while many species of the Old world feed on fruits.

Tundra

Tundra is the cold, desert, treeless plains which form the Arctic lowlands of Europe and Asia. The name is also generally applied to a similar area in North America. The word is of Russian origin and means a marshy plain. The prevailing low temperatures are consequent on high latitude and proximity to the frozen northern ocean and result in very scanty vegetation.

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WARRENDALE

By Aino Ferrington

Mr. and Mrs. R. E. Goodlin who has been living in one of the Lively tents have just moved to Coopey Falls.

Mr. and Mrs. Tillie made a business trip to Portland Monday.

Mr. and Mrs. H. Klingbell are now living in the house formerly occupied by Mr. and Mrs. Leo Stewart who left recently for Coulee.

Mr. and Mrs. A. E. Johnson of Portland moved into their new house at Warrendale last Thursday.

Mr. and Mrs. A. P. Davis have just completed their new house at Warrendale, and are now living there. The Davis' are from Portland.

Mr. Kelly of Corbett is taking orders for wood in this community.

Mr. and Mrs. Wm. Steiner made a business trip to Portland Monday.

Mr. and Mrs. Wm. Sharp have moved into one of the Steiner cabins.

Mrs. Clifton who has been suffering from a very bad cold has been spending a few days in town.

Mrs. L. E. Steven and Mr. and Mrs. T. B. Beck made a trip to Portland Saturday. Mr. and Mrs. Beck just recently moved into one of the Lively houses.

Mr. and Mrs. Arthur Beecher and Mr. Donald Lang enjoyed a trip to Portland Sunday.

Mr. and Mrs. H. Withrow made a trip to Portland Sunday taking his brother and wife to Portland.

Miss Antoinette Galasheff, who is teaching school near Ione, Oregon, visited at her home at Warrendale over the week-end.

Mr. and Mrs. Charles McElligott of Ione, Oregon, made a trip to Portland last week-end. They stopped at Warrendale long enough to visit with Miss Guyla Galasheff and her father.

Progress of Philip Sheridan

When the Civil war broke out Philip H. Sheridan, a newly made captain, wrote this to a friend: "Who knows? Perhaps I may have a chance to earn a major's commission." He jumped clear over the ranks of major and lieutenant colonel to colonel, then brigadier general and major general and finally he was appointed general of the United States army. At the head of the cavalry he was to General Grant what Marshal Murat was to Napoleon.

First Envelopes Made in U. S.

Envelopes were first made in 1839 by a Mr. Pierson of New York city in a little store on Fulton street. The first envelope machine patent was granted January 23, 1849, to J. K. Park and C. S. Watson of New York. The first practical envelope folding machine that was successful commercially was patented January 21, 1853, by Dr. Russell L. Harris of Worcester, Mass. Window envelopes were devised by Thomas Callahan, patented June 10, 1902.

Poison Ivy and Poison Oak

Poison ivy and poison oak are not the same, although the names are confused in some parts of the country. Since some forms of poison ivy do not climb, and some forms of poison oak do, it is hard to distinguish between them.

Lions Transmit Warning**by Long Distance Method**

Wild animals of many kinds are undoubtedly able to transmit warnings to others of the same species at a distance. A big game hunter, says a writer in Tit-Bits Magazine, during his long wanderings in the wilds with a cinema camera, noticed this fact over and over again. Even lions, he explained, are susceptible to the "danger" message, and where a few years ago they were plentiful they are now rarely seen, simply because the hunter has raked that part of the country with his motor-car rifles, and an army of "boys."

On the other hand, whenever a sanctuary is made, animals and birds journey to it from great distances. In some mysterious way they get the news that a certain spot means safety, and there they will gather and breed and rapidly become almost tame.

If conditions in any particular place become suitable for any special bird, animal or insect, in some inexplicable way that creature appears there.

A form of wireless occurs also among insects. There is a variety of moth which frequents only a certain kind of tree. A naturalist took one of the females of this species and placed her in a cage three miles from the nearest wood in which others of her kind were to be found. The next night two males of the species were discovered, clinging to the outside of the cage; but how they became aware of the presence of their mate is a problem which defies any ordinary explanation.

Animals Too Minute to**Be Visible to Naked Eye**

It has been said that this is a world of dog eat dog, the large preying upon the small, the strong upon the weak. But this is not always the case, observes a writer in Path-finder Magazine. In many instances we find little fellows living on the great and even destroying them. This can be said of the Protozoa, smallest animals in the world, though by no means all of them are destructive of life or parasitical. The largest of the Protozoa are scarcely visible to the naked eye, while the smallest are microscopic.

The Protozoa move about by means of tiny mobile lobes, or tiny hair-like vibratory appendages called cilia or flagella, which propel the body or aid in taking food. The simplest types consist of a mere drop of naked protoplasm enclosing a nucleus. In most forms, however, a cell membrane covers the mass and limits its activity. Many forms possess protective covering such as shell, scales, and spines. Membraneless forms can ingest food at any point, but those with membranes have at least a mouth.

Protozoa, when spineless, often infest human beings, causing diseases such as malaria, yellow fever, typhus, sleeping sickness, dysentery. They represent the form of animal life that is closest to plant life. In fact, it is practically impossible to tell exactly where one ends and the other begins, the essential difference between a plant and an animal being one of nutrition. A typical plant feeds off gases in the air and inorganic salts in the soil or water, while the typical animal must get ready-made protein for food from other animals and from plants.

Edison and Rheumatism

Thomas Edison's painstaking methods are shown by his experience with rheumatism. He asked the physicians if all possible combinations of drugs had been tried to dissolve the uric acid crystals that cause rheumatism. When the doctor replied, "I suppose not," the Ohio wizard was determined to try for himself. He put a few of these crystals in the bottom of each of several thousand glass tumblers, and into each tumbler he poured a solution of every known drug. After three days he found that the crystals in five of them had dissolved. Throwing the other drugs away, he took these five to the physician and said, "There are the drugs you ought to use for rheumatism. To find out how to do a thing is to try everything you can think of."

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