### Strange Traveling Methods of Seeds

SomE seeds make journeys with wings, and others travel from place to place by attaching themselves to the clothes of men or the bair of animals; still others make their journey in the stomachs of birds. These are facts that will interest the young people who are taking an interest in agriculture and are working in a garden at home or at school. According to the United States Depart-ment of Agriculture's specialist, the seed as the starting point in a life cycle of a plant may well be studied first by young gardeners.

The seeds of the maple tree are particularly interesting. They are provided with wings, and when they become detached from the parent tree a gentle breeze will carry them a considerable distance from the branch to which they were attached. There are many forms and modifications There are many forms and modifications of the winged seed, as the linden, the hornbeam, the elm, and the pine. These are all common trees from which seeds for illustrative purposes can be secured. Some seeds are also provided with parachutes or umbrellas, not for protec-tion from rain and storm, but for purposes of locomotion. The seeds of the thistle, the milkweed, and the dandelion—in fact. of locomotion. The seeds of the thisde, the milkweed, and the dandelion—in fact, the seeds of all plants which have a cot-tony growth—are provided for these aerial journeys. Besides these, some seeds are provided with hooked appendages by which they can attach themselves to the clothing of men or to the hair of animals, so that

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they become transported from place to place. Other seeds have hard seed coats, place. or shells, which are covered in many cases by edible fruit. The fruits are eaten by birds, but the seeds are not digested, and in this way become distributed from place to place.

to place. The groves of cedars which are charac-teristic of the landscape in many sections of the country, it will be noted are chiefly placed along the lines of fences or fence rows. The fruit of the cedar is an edible one, but the seed is not digestible, and in this way the existence of these hedge rows of cedars is explained. Cherries, grapes, and other fruits are to a consid-erable extent disseminated in like man-ner. ner.

The hard nuts of our nut-bearing trees are not used as food by birds or large animals, but are usually sought by squir-rels and small rodeuts, which are in the habit of gathering and burying them in various places or statistic the basis various places or storing them in large quantities for Winter use. The result is that a considerable percentage of those which are buried in this manner are never rediscovered by those hiding them, and in time Nature causes the hard shell to crack open, and the warmth and moisture of the soll brings the germ contained in the kernel into life and a tree springs into existence

Existence. It will be noted that the nuts which were buried by the squirrels did not germ-inate immediately after being buried, but waited until the warm weather of the Spring came before they put forth their tender shoots. This is not because they willed it, but because the hard outer walls of the shell would not admit the air and water to the germ, so as to stimulate its water to the germ, so as to stimulate its growth.

growth. It was necessary that the shell be frozen and broken by the action of the frosts and the weather before moisture could gain an entrance to cause the swelling of the germ. This peculiarity, when taken advantage of commercially, is called stratification. Seeds with hard shells, such as cherries, peaches, plums and the like, have to be stratified—that is, they must be planted in the Fall where the plants are to grow or they must be packed away in boxes of sand in a position where they will freeze and remain frozen during the Winter, in order that they may germ-inate the following Spring.

the Winter, in order that they may germ-inate the following Spring. If seeds of this character are stored and kept dry during the Winter they will not germinate if planted in the Spring. Seeds with thin seed coats, however, like peas, beans, etc., if treated in like man-ner, will be destroyed by the action of the cold, and no plants will result from planting them in the Autumn. Such seeds must, from the nature of the case, be retained in a dry and compara-

case, be retained in a dry and compara-tively warm place during the Winter sea-son, in order that their vitality may not be destroyed.

#### Cranberry Industry.

Manufacture of juices out of the cranberries raised in the marshes on North

Manufacture of junces out of the that berries raised in the marshes on North Beach, Wash., may soon become a fact, according to H. H. Tinker, cranberry dealer of Long Beach. "I look to the cranberry as a means of making North Beach famous," said Mr. Tinker. "Already hundreds of acres of bog land have been cleared and set to herries. The yield is profitable and al-though the initial cost is somewhat steep, when once the vines are in bearing the returns are reasonably certain and the income per acre is most satisfactory. Mak-ing julces from the cranberry will no doubt become a new industry in the near future. Experts who have tested the fruit, pronounce its quality excellent for this purpose. The commercial possibili-ties of the cranberry, which are already assuming significant importance, are an inviting field for investors. Hundreds of persons are given employment on the marshes annually at the present time."

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"Dont's" in the Hog Bu

"Dont's" in the Hog Business. The following are some "don'ts" learned in the hog business: Don't try to raise hogs without good warm quarters; build the house first. Don't keep the hogs shut up in a small pen; they are the cleanest animals on the ranch if given a heance to be. Don't change a sow's nesting place at farrowing time; if she is in a straw stack, leave her there until the pigs can walk home. Be sure, of course, that she is well fed and warm. Don't keep a fat hog after he is fat,

well fed and warm. Don't keep a fat hog after he is fat, as he won't take a second growth. You will waste feed for nothing. Don't feed hogs from a sack; always use a pail, and be sure to rattle the pail; they will soon learn what it means. Don't drive hogs; call them. One man can call 20 hogs where 20 men cannot drive one hog.

drive one hog.

Don't engage in this business just for the dollars and cents. If you don't like hogs, raise sheep.

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