

One of the most thriving businesses in the United States today and which seemingly carries on its work regardless of the fluctuations of stocks on the great exchanges, is the growing and selling of seeds. From small beginnings in the colonial period this business has grown so that now its value in measured by the tens of millions. The first beginning of the seed business commenced in small shops llons. The first beginning of the seed business commenced in small shops where a few boxes of seed shared a corner with codfish or a shelf with calicoes or books. To-day it has come to claim for itself immense warehouses and business establishments, having interests which extend to every portion of the globe.

The Pilgrims probably were the first introducers of seeds into this country, for they brought with them seeds of the plants cuitivated by them in their



BEATING OUT HEMP SEED IN KEN-

English and Dutch homes. These of course were of such plants as were considered necessaries of life-corn barley and peas, while fruit trees were also set out.

were also set out.

Early records show that in 1763.

Nathaniel Bird, a book-dealer of Newport, R. I., advertised garden seeds just arrived from London. The following year an announcement was made by Gideon Welles that he had some chalce Connecticut onlar seeds Early records show that in 1763, Nathaniel Bird, a book-dealer of Newport, R. I., advertised garden seeds just arrived from London. The following year an announcement was made by Gideon Welles that he had some choice Connecticut onion seeds for sale. In New York city hemp and flax seeds were advertised for sale as the connection of th flax seeds were advertised for sale as early as 1765. Boston, however, betrade much attention must be paid to

Harvesting

Sorghum

Seed In Nebraska.

A Few

Pumpkins For Seed

of the large cities of that period.

A Pioneer Seedsman.

In 1784, David Landreth commenced operations in Philadelphia; Bernard M'Mahon, in that same city in 1800, while in 1805, Grant Thorburn began to sell seeds in New York. By 1830 the population had increased from about three million in 1700, to ten and a half millions. To meet the growing demand for yegatables and

growing demand for vegetables and flowers, these ten and a half millions

required more than three and a half

times as many seeds as were used in 1790. Dealers established themselves

in the principal cities and crossed the

seedman's agent, is a text-book of hor-ticulture. Millions of these soks find their way into rural homes and become the basis by which the amateur gard-ener derives a knowledge of varieties and even methods of growing plants

and even methods of growing plants under varied conditions.

Sec: Growing a Big Industry.

The seed trade has changed quite as much as has the catalogue, first with its woodcut engravings, to excellent with its seed laboratory where studies



FIELD GROWN LILIES FOR BULES

half-tones and color plates. The bar-rel of peas first sold in Newport has grown to hundreds of bags, and the few thousand packets to millions. The modern seed house has every mechani-cal contrivance to aid in making the cal contrivance to aid in making the business economical and systematic. From the cellar to the mailing room everything is so arranged that orders may be filled with accuracy and dis-patch. During the late summer and

days, was the chief city for the sale of garden seeds. In 1707 out of twenty-six advertisers in the Boston Galished a small seed farm at Philadelzette, six were dealers in seeds. Dur-

force is constantly employed securing seeds from dealers and testing them,

noted: they have been cut and judged by the appearance of the Inside. Various experiment stations of the



Personal Seed Tests. The average farmer, however, would do well to carry on a little seed test. pan. The mulberry tree is planted in ing establishment of his own each stead, the leaves of which furnish food

grown in this country for at least fifty years. The amount raised, even at the present time, is not sufficient to meet the trade and the greater part of the flower-seed sold is imported from Europe.

Importance of Seed Testing.

Since the days of tradition a great deal of attention has been paid to seed testing for quality of germination. Seeds have been floated or have been heated until they popped; they Importance of Seed Testing.
Since the days of tradition a great deal of attention has been paid to seed testing for quality of germination. Seeds have been floated or have been heated until they popped; they have been broken and the fracture stand.

#### THE WOODMAN'S STRIDE.

With a Long Swinging Step, He Covers Much Ground and Preserves a Perfect Balance.

A woodman walks with a rolling motion, his hips swaying an luch or more to the stepping side, and his pace is correspondingly long. His hip ac-tion may be noticed to an exaggerated degree in the stride of a professional pedestrian, but the latter walks with a heel-and-toe step, whereas an Indian's or sailor's step is more nearly flatfooted. In the latter case the center of gravity is covered by the whole foot. The polse is as secure as that of a rope walker. The toes are pointed straight forward, or even a trifle inward, so that the inside of the heel, the outside of the ball of the foot, and the smaller toes all do their share of work and assist in balancing. Walking in the woods in this manner, one is not so likely to trip over projecting roots, stones and other traps as he would be if the feet formed hooks by pointing outward. The ad-vantage is obvious in snowshoeing. If the Indian were turned to stone while in the act of stepping, the statue would probably stand balanced on one foot. His gait gives the limbs great control over his movements. He is always poised. If a stick cracks under him it is because of his weight, and not by reason of the impact. He goes silently on, and with great economy of force, illis steady balance enables him to put his foot down as gently as you would lay an egg on the table.

#### American Cheese Production.

Twenty years ago the cheese supply of Great Britain was largely furnished by the United States, but to-day Can-ada has taken the lead and far outstripped us as an exporter of this commodity. In 1880 the United States sent 131,208,776 pounds of cheese to Great Britain, while in 1904 only 25,180,960 pounds were shipped to that country. Canada, on the other hand, exported over 31,000,000 pounds twenty-five years ago as against 212,862,322 pounds last year. This loss of trade, however, has not been injurious, but on the other hand, is caused through an excess of consumption at home over production, while reverse conditions prevail with our Canadian neighbor. Canada was thus forced to seek the British markets for her plethora and to fill up the place left vacant in that market by the withdrawal of the United States therefrom.

Mulberry Fences.

market by the withdrawal of the United States, In 1900, manufactured nearly 282,000,000 pounds of cheese, the per capita factory production was only 3.7 pounds, whereas, on the other hand, in 1901, Camda produced 224,000,000 pounds, furnishing nearly 41.8 pounds for each inhabitant, It is therefore shown, by a report from Consul-General Holloway, of Halifax, that the Canadian export trade to which every one of our neighbors points with pride was not gained at the expense of the United States, for they must export their cheese or get "snowed under." The United States can not keep up in production with our increasing home consumption.

Mulberry Fences.

#### Mulberry Fences.

There are but few fences in Ja year, and this course is advocated by for silk worms. Nearly 200,000 acres the Department of Agriculture. In are thus utilized.



A CALIFORNIA ONION PATCH.

From this beginning the business has grown to enormous proportions. Now

a single firm of growers devotes annually some 2,000 acres to seed crops.
Onion and lettuce are staple seed Along with the reaching out for trade came the Increasing size and prominence of the catalogue. The earliest seed catalogues were mere lists not intended for general distribution. Thorburn probably issued the first seed catalogue as early as 1823, shortly after the civil war the catalogue became more prominent. Its size was increased and a few illustrations appeared. Noveltles were not as a perfect to collect statistics of seed.

market gardener found he could get

from the seedmen just as good seed as he could save himself and at less

as he could save himself and at less cost. The business of seed-raising in-creased rapidly after the war, farms being established in various parts of the eastern United States. In 1875 seed growing commenced in Califor-nia, when R. W. Wilson planted 50

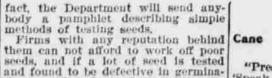
acres to beets, onlons, lettuce and car-

Two Thousand Acre Seed Farm.

rots for seed purposes.

logue became more prominent. Its size was increased and a few illustrations appeared. Novelties were not as numerous twenty years ago as they are today; they were not given so much attention either. Today there is not an important catalogue but gives considerable space to novelties. Seedsmen are on the alert for novelconsiderable space to novelties, the information of the alert for novel-

ties; they are the money makers. The modern catalogue, with its profusely devoted to the raising of flower seed. Flower seeds have been regularly



crops, while carrot, celery, leek, endive, kale, kohl-rabi, parsnlps and parsley are all grown by California seed growers.

While the census of 1890 showed that there were in the United States 596 seed farms, containing 169,580 acres, the census of 1900, with incomplete returns, showed more than 2,500 seed farms. The Census Office made the control of the control of the control of the control of the carrot, celery, leek, endive, leek, endive, kale, kohl-rabi, parsnlps and them can not afford to work off poor seeds, and if a lot of seed is tested and found to be defective in germinative qualities, the seedsmen will probably stand ready to supply a good article in its place. The fault, in fact, may not be the seedman's. Although the seed dealers attempt to convey the seed farms. The Census Office made idea that they raise their own seeds on their own farms, such a practice is manifestly impossible where vast supplies of seeds are furnished. They raise some of the seeds, but large quantities are contracted for by them canes in preference to revolvers. The with other recovery and the seeds of the seeds men themselves being imposed upon. So that it is well for the individual, can flash it on the instant. When grower to test each batch of farm or you are in a situation where your stick garden seeds which he expects to plant. The test which he can make a club. An agile man can dodge the will show him nothing regarding varieties; he may be getting a common test of the control of the co

#### CARRY A BIG STICK.

good advice literally as well as figuwith other growers and farmers, and there is always a chance of the seeds there. The revolver must be carmen themselves being imposed upon. will show him nothing regarding varieties; he may be getting a common cabbage instead of some high-priced novelty, that can only be determined at the end of the year; but the government experiments along this line are effectually holding the more irresponsible seedsmen in line, and the farmer himself can check up with his seedsmen on the question of germination.

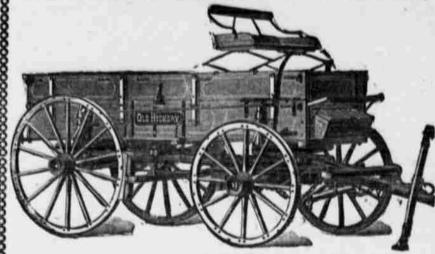
Seeds Germinate Quickly.

Most seeds will germinate in from three to ten days. The apparatus required is very simple—a pan, some cotton flannel or cotton batting, a little sweep of a stick, and knife you before you recover your guard. Carry the stick with the tip somewhat in advance, grasping it firmly six inches or more below the knob or handle. If you are confronted by an adversary give him a sudden, hard thrust with the small end. The stomach is a most vulnerable point, and if you catch him fairly the chances are ten to one that he will double up like a jack-knife. Before he recovery you can withdraw the stick and hand him one on the head or the back of the neck that will put him out of business for some time to come.

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MISSOULA, MONTANA.





ing the War for Independence the ad-1this country largely depended upon

vertising of this commodity appar-ently ceased, although it is hardly be-lieved that there was not a time but were established as had been during

what one could purchase seeds in any the thirty years before the conflict. of the large cities of that period. Growers also became expert and the











