HOME AND FARM MAGAZINE SECTION

The Life History of the Potato

plant, highly intelligent Indians

plant, highly intelligent indians meas, they called themselves,) were litivating potatos in the mountain ileys of Peru. These Indians had veloped a system of writing, and d erected great buildings, and had me many other things of which any te many other things of which and e of people 400 years ago might re been proud. They did not know thing about gunpowder, however, i when the Spanlards found them. when the Spanlards found them, poor Incas were easily conquered, the Spanlards took from them re quantities of gold and other sures, and, incidentally, the tu-iof the potato. These potatoes were evidently a n which had been developed by Incas by selection from the wild which may be found in the incluse of Pern. Chile, Meyler and

e which may be found in the unialns of Peru, Chile, Mexico and gthern Colorado to this day. In a hands of the Spaniard, the potato ind its way to Southern Europe, a to the first American colony in reinu.

One of the most interesting men One of the most interesting into ho lived in England 300 years ago as Sir Walter Raleigh. He was ways looking for something new, ad considerable money, and was a dend of Queen Elizabeth. At that me, all the leading nations of the arth were sailing forth to investigate he new world which Columbus had becovered a hundred years before.

Origin of "Irish" Potato,

Sir Walter Raleigh-being placed he was-also sailed forth. He oped to find gold, but instead found the potato and tobacco plants. The potato plant had been introduced into Virginia a short time before, from Peru, and Sir Walter Raleigh took it Virginia to his estate near Cork. rom a Ireland. He tried to get the Eng-sh people to like the potato, but ney would have nothing to do with fearing, because of its relationship the deadly nightshade, that it was

The Irish peasants, however, recog-ized its value, and during the large art of its early history the plant was altivated more in Ireland than in ny other country. That is the rea-on we call it the "Irish" potato, when it is by right of origin the Peru-

During the sixteenth century and the carly part of the seventeenth, the potato was very little grown outside of Ircland. Gradually, people began of a constraint of the point of potatoes more and more.

Appearance of "Blight."

Drawings of the plant made in the carly days indicate that it was very nuch the same then as it is now. The varieties, however, were much differ-ent. In 1840, a disease appeared causing blight and rot, which is now common everywhere, but at that time the potato plant as commonly culti-vated had never before been attacked by it by it

For several years, potato crops failed all over Europe. In Ireland, the trouble was especially serious, and thousands of people died from famine, and thousands of others came to the United States to avoid the scant food supply. Something had to be done. A variety had to be secured that could withstand, to some extent at least, this new disease. New va-rietles were grown from the seed balls. These new varieties second to do all right for a time, and then they deterioriated and became diseased. It now seems as though it is necessary to start new varieties about every 10 or 15 years. Many of our good varieties, however, have lasted for 30 or 40 years

of R hundred years ago, before American variety, was crossed with the white men over heard of the the Hebron. The resultant seed ball

was planted, and one of the seedlings was the Early Ohio. Since the pointo plant passed out of the hands of the South American Indians, it has gone through some wonderful changes. New varieties have been continually coming up, growing old, passing away.

Favorable Conditions.

The final word has not yet been said in potato varieties. It may be that some of you will plant seed balls, and, like Luther Burbank, se-cure new varieties better than any we now have.

The native home of the potato plant is semi-tropical America, at an altitude of 4000 to 8000 feet. The high altitude means a long, cool, even season. The wild potato has tubers about a quarter of an inch in di-ameter, and the character of the soil

didn't make much difference with it. Our cultivated potatoes are often three to eight inches in diameter, and in order to do well, the soil must be fairly loose and carly pushed aside. The small wild potatoes didn't need much in the way of water. Our large cultivated potatoes must have a large supply of water

Supply of water. — Putting all these things together, it seems that the situation best adapted to polatoes is a cool, moist climate and a light, friable, rich soll. The irrigated mountain valleys of Colorado, Idaho and Montana supply these conditions spiendidiy. Maine, Wisconsin and Minnesota, with their

cool, moist climate, and rather sandy soil, raise splendid potatoes. For the same reason, England, Scotland, Ireland and Germany grow good pota-toes. The soll in these foreign coun-trics is often rather heavy, but they make it friable by applying large quantities of manure. Moreover, it doesn't seem to make so much difference if the soll is heavy, provided it is kept moist by light rains.

Kiln-Drying Process Is Found to Be Rapid

"HE Forest Service has been making experiments, at its Madison, Wis., laboratory, in kilu-drying grand fir (one of the white firs), a species which is abundant in Oregon and Washington. These experiments have resulted in a very rapid and set-

isfactory process of drying the fir. First, the green lumber is heated clear through to the boiling point by allowing live steam to escape into the kfin until a vapor temperature of a vapor temperature of 225 to 230 degrees F. is reached. For one-inch lumber, this should con-tinue for about four hours, and is designed to prevent surface drying and also to aid in the evaporation of some of the moisture in the wood. The live steam is then turned off, and the humidity reduced from about 100 to 40 per cent. The temperature of air and circulation should be main-

method of piling, kind of lumber, method of plling, kind of lumber, initial amount of moisture and the exactness with which the required conditions of drying can be main-tained. The piling is an important factor, for the lumber must be so piled that there is free circulation of air over every part of it. stacking or piling is the best Edged

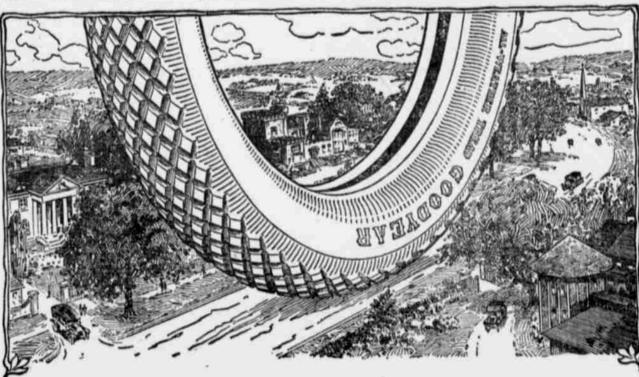
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Although this method of drying is Although this method of drying is very rapid, the lumber showed very little checking, no discoloration, but slight loosening of the knots, and slight case-hardening. In material that is not to be resawed, probably this latter difficulty would not ap-pear. At all events, the amount of circulation and high humidity at the mome time tends to diminish or presame time tends to diminish or prevent this effect. The tests from which this method

was developed were made with a sp chal humidity-regulated klin. Simi-lar results may be obtained by using somewhat the same process by the oven or non-draft method now quite extensively used in the Northwest. In fact, any type of kiln may be operfact, any type of kiln may be oper-ated in this manner by closing the ventilators to prevent draft. It is important that the lumber be heated through by means of a steam bath, and that a temperature of 225 to 230 degrees F, be maintained. It is dif-It is difficult to control the humidity in most of the kilns now in use, but as the drying proceeds, the humidity automatically drops and the r conditions are approximated. required

The forest service is co-operating with 54 railroads, mining companies, pole companies and cities in making teats of wooden ties, timbers, poles, piling and paving blocks which have as been given preservative treatments.



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Burbank's Potato.

A little over 40 years ago, Luther Burbank, a young man of 23 years, planted a lot of potato seeds which be had secured from the seed balls. which look like little green tomatoes. One of these seedlings stood head and shoulders above the rest, and he child it the Burbank. It soon be-

called it the Burbank. It soon be-came the leading American potato, and to this day ranks quite high. Mr. Carmen, who, a number of years ago, was editor of the Rural New Yorker, a farm paper which is still published in New York, became much interested in potatoes. He got his subscribers to send in seed balls. He planted thousands of these seeds, secured two or three seedlings which to this day are well known over the entire United States. The most famous is the Rural New York-OVET The Carmen and the Raleigh are also well known.

The Peachblow, an old-fashioned

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