In the Field of Agriculture

BLIGHT IN THE SOIL

should not be planted the second year tice in potato growing. The spraywhere the first season's crop has ing of late potatoes should never be shown much clubroot, and potatoes should not follow potatoes where scab has prevailed, nor where fusarjum wilt and its accompanying tuber rot have been destructive.

unsafe to use the next? America, have advanced the opposite causing injury.' view and advise against planting been prevalent.

neglected.

IRRIGATING THE GARDEN

ties, one in England and one in mer months when dry weather is working order.

To test the liability of such trans- by allowing the water to spread by water, is applied to the surface by has carried on careful tests in two system as it is commonly called is moistened to:a depth of four to eight do not prove that the late-blight fun- one side of the pipe. The pipe is ex-

crop to avoid this disease; especially small nozzles it is broken up into a as we know that thorough spraying fine mist which moistens the soil Rotation of crops is necessary to will control both blight and rot and gradually and does not cause it to prevent transmission of several plant will increase the crop enough, tak- pack or bake. When a certain strip diseases, says a bulletin of the New ing one year with another, to make of land has received a sufficient York experiment station. Cabbage this a highly profitable regular prac- amount, the pipe is turned until the water is thrown in a new position. With ordinary city water pressure a strip sixteen feet wide can be irrigated in this manner without changing the pipe and support to a new place. A good length of garden hose With a small garden handled in- can be used to carry the water from One of the most destructive potato tensively a conservative amount of the hydrant to the pipe as the latter diseases in many states is late blight, irrigation will always prove profit- is changed and one length of pipe can with the common rot that follows it; able, says the Indiana agricultural be made to answer the purpose. With and questions relating to transmis- experiment station. There is rarely this system the water can be applied sign and control of these troubles are a season when a small quantity of at any time during the night or day. exceedingly important. Does this water applied intelligently during a If one has water under pressure at fungus survive the winter in the soil dry period will not increase the yield hand, the cost of installing and and make a blighted field of one year and quality considerably and in some operating will be very low. A piece instances prevent complete failure, of pipe of sufficient length to extend Most authorities hold that the fun- In some homes there is no available across the garden, a nozzle costing gus causing these two troubles does water for this purpose, but with the five cents, for every two feet in not over-winter in the soil; and that advantage of pneumatic tanks and length of pipe, a cap and three or there is no more liability to blighting water systems in our country dwel- four couplings and wooden supports and rotting on a field thus affected lings sufficient water can easily be make up the outfit. After the conthe year before than on one free from provided to irrigate a small garden nections have been made, the water the disease. Recently two authori- three or four times during the sum- is turned on and the apparatus is in

Surface irrigation by flobding the There are three methods of apply- land may be practiced but will not potatoes on soil where blight has ing water-sprinkling from overhead prove satisfactory in the hands of the pipes, urface applications or flooding amateur as the above method. The mission, the botanist of the New means of furrows and sub-irrigation, means of furrows and allowed to York agricultural experiment station The sprinkling or Skinner irrigation percolate into the soil until it is seasons; and finds no evidence that well adapted to home garden condi- inches. Sub-irrigation is carried on the fungus can survive the winter in tions. A lead of one-inch galvanized by laying three, or four, inch tile the field, in central New York, at pipe is fitted with a small nozzle twenty inches below the surface with least. The results, being negative, every two feet on a straight line on a fall of one inch to the hundred feet.

In all irrigating systems the gus can not remain alive over winter tended across the garden on wooden amount of water to apply can only in the soil, but they make such per- supports from four to eight feet be determined by experience with the sistence appear highly improbable. above the ground, It is then con-type of soil used. A general rule to "It would seem unnecessary, then, nected with water under pressure, follow is to water thoroughly but not to change the location of the potato and as the water passes through the often. Following the application of water the land should be cultivated as soon as it is dry enough to prevent the formation of a surface crust.

WHY NOT A FEW SHEEP

A few sheep on the average farm, if properly cared for, will give good financial returns. A farmer who is not familiar with sheep husbandry should start with a small flock and as his number grows his knowledge of sheep management will increase. The profits derived from the sheep business, the Nebraska college of agriculture finds, are largely determined by the shepherd's knowledge of the industry. Sheep are sometimes called the plant scavengers of the farm. They will thrive on more kinds of weeds than will any other domestic animal. Sheep prove invaluable in cleaning weedy pastures, fence corners, and in removing brush. Sheep can also be used to good advantage in utilizing products which would otherwise go to waste, such as the scattered heads and volunteer growth in the stubble field, crab grass, and the lower leaves in the cornfield.

SOIL MOISTURE

Summer tillage has been the mos: effective method of storing water in the soil, but even by that method only 10 to 33 per cent of the rainfall of the season has been stored, according to a recent bulletin issued by the North Platte station of the Nebraska experiment station. The amount of water stored varies with the amount and distribution of the rainfall during the period covered by summer tillage. Moisture from light

rains is soon lost by evaporation. On the other hand, in very heavy showers a great deal of water runs away.

Storing moisture in the soil before seeding the crop is a safeguard against drouth, but it has not been found possible to store enough water in the soil before seeding to insure a crop without subsequent rains. Stored moisture sometimes causes

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