

mass goes into the stomach and is digested at an expense of energy above what is natural, because of the absence of the action of the ptyalin of the saliva in ordinary mastication. For this reason we like to feed grain separately, preferably after feeding the milk. The proportion of grain to skim milk to feed will be about six to seven parts skim milk to one part grain. These amounts will vary and a greater proportion of milk should be fed in the ration while the calf is young. During the first three months one pound of grain to ten pounds of milk daily would be about right. From three months of age more grain and slightly less milk could be given. In the spring and summer these calves will also eat considerable grass which will help greatly in developing their digestive system. If fall calves, they should be encouraged to eat hay and especially if they are dairy calves. Hay will have a tendency to increase their digestive capacity. It is scarcely necessary to mention that regularity in feeding is a prime essential as well as cleanliness of the pails in which the milk is fed.

An Ideal Seed Bed

In order to secure the ideal conditions for seed germination, a seed bed for wheat or other small grains or grasses should not be too deep and mellow, rather the soil should be mellow and yet finely pulverized only about as deep as the seed is planted. Below the depth at which the seed is planted the soil should be firm (not hard), making a good connection with the subsoil so that the soil wasted may be drawn up into the surface soil. The firm soil be-

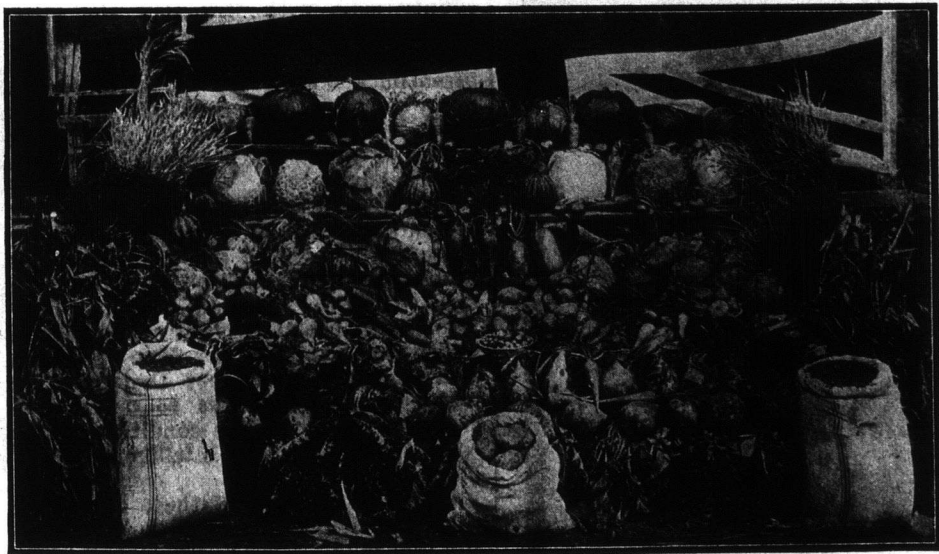
Part of the same seed was sown on otherwise similar plots that had not had the smut spores scattered on them. With good Red Fife treated with 1 lb. formaldehyde to 30 gallons water, sown on clean land, only 3 smut heads were produced in the plot. The same seed sown on smutted soil produced 52 smutty heads. In every instance the crop was much more smutty on the infected land than on the smut free plots.

How a Homesteader's Wife Can Make Her Own Pocket Money

By Annie Snyder, Hardisty, Alta.

I have heard homesteaders' wives say they would like so much to raise a flock of ducks and geese, but could not afford to build houses for them, and they were quite surprised when told that these birds were not at all particular about their sleeping quarters being made of expensive material. They are quite satisfied with a good large drygoods box, which can be purchased for 50c or 75c. It should be covered with tar paper, and they should have nice clean bedding of straw or hay. They only use this house for their sleeping quarters, for they scorn the idea of being closed up during the day, no matter how cold it is. When the thermometer registers 40 below zero, they will sit around on the snow and will gladly take a bath, though the water may freeze to their feathers.

Geese are great feeders, but the main portion of their diet is grass. When the little goslings are only two days old they will eat grass quite greedily, and at 12 weeks old they will weigh



Vegetables Grown in Saskatchewan.

neath the seed, being well connected with the subsoil, supplies the moisture to the seed, while the mellow soil above the seed allows sufficient circulation of air to supply oxygen during the day and acting as a blanket to conserve the soil heat and maintaining a more uniform temperature in the soil during the night. Meanwhile also the mellow soil conserves the soil moisture, acting as a soil mulch to keep the water from reaching the surface where it would be rapidly lost by evaporation, and the same condition favors the growth of the young shoot upward into the air and sunshine, where in the presence of oxygen, light and a favorable degree of heat, the green leaves quickly begin the work of assimilation and the soluble plant food elements absorbed by the roots are rapidly transformed into protoplasm and starch and the various cells and tissues which build up the plant structure, and the young plant grows and is soon independent of the seed established upon its own roots.—Prof. A. M. Ten Eyck.

Smut Will Live in the Soil

It has been proven at the Indian Head Experimental Farm that grain will be infected to a certain extent from smut spores in the soil of fields upon which these have fallen. Several plots had smut spores scattered over them, as would be the case if a very smutty crop had grown there. Seed treated with formaldehyde and bluestone was sown; also seed untreated.

from 12 to 18 pounds. Geese and ducks are not subject to lice and mites and all varieties of poultry diseases. If you have a creek or slough they will keep their plumage beautifully clean. The chief objection I have to geese is their music. When a large flock of geese begin to exercise their lungs in the middle of the night it sounds as if the judgment day had come.

I shall gladly answer any letters from homesteaders' wives who desire information as to the care and feeding of young water fowl, as there are no doubt, many who have had no experience along this line.

Chickpea Raising

I put in my setting of eggs about the first of February, so as to have my broilers ready for the early New York market. Chicago and Philadelphia also pay a high market price. I then remove the chicks to the brooder. The heat of the brooder should be about the same as that of the incubator. Then in a day or two I gradually decrease the heat as the chicks grow older. I do not feed the chickens until they are twenty-four hours old, as there is enough nourishment stored away in the yolk of the eggs which they take up. Their first meal should be bread soaked in milk and wrung out dry, then in a few days I give them mixed rations of corn bread, cracked wheat, cracked corn, and chicken food. At ten weeks old they are ready for market, weighing two pounds and over. Plymouth Rocks and Wyandottes are

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