Soiling Crops.

In the accompanying diagram the crops refe to have been all tested in Ontario. We had en tained some doubts of Lucerne. We had for y known it in Great Britain, where it has been grown and highly valued for green fodder; Prof. Brown, in his address to the Dairymen's vention, has borne testimony to its entire has ness. He says: We have now proved the thore adaptability of the Lucerne to this country hardiness, prolificness and value as a soiling c That drilled in the spring of '76 is now beginning show the need of a more substantial manure t diluted farm-yard liquid, so we have now give a heavy application of manure. Five cutti gave eight tons per acre, and I am sure the c will certainly be more productive next year. periments have been made both by broadcast drilling; by the latter mode the produce was mu the greater. This was due, of course, to the s face being more fully stocked with plants. would, it is presumed, be best to broadcast p vided the land is thoroughly clean and in go heart.

The diagram shows when each variety gave first cutting and how long it continued to give go soiling. Lucerne yielded 4 tons per acre from f cuttings in about six months. Fall rye comes early in spring, is a good soiler, but matures ear It yielded 2 tons in two cuttings; red clover tons; tares and oats 3 tons; millet 3 tons; corn tons at one cutting; rape 7 tons; thousand-head kale 15 tons; prickly comfrey 3 tons. This, for t comfrey, is a small yield, but it increases in t volume of its product as it grows older. Sainfoi also named in the diagram, is highly appreciated Britain, but we would not recommend it yet mo than as an experiment. From the diagram it is al apparent how many varieties of green food ye may have for use each month. Thus in April ther is a slight yield from Lucerne, and very little from Sainfoin and red clover. In June there are cu tings of four varieties throughout the month, an during the soiling months till October, when the decrease in number.

From Prof. Brown's address we take the follow

ing selections:

He said they were accustomed to hear of th growing, root farming, dairy farming, and mixed farming, in each and all of which the live stock go and come from field to field in summer, according to the conditions of cultivation and the differen modes of management. "Soiling" was the hous ing of cattle at all seasons, and in our circum-stances, from the middle of April to the middle of October, when all their food is taken to them from the fields, in place of their being allowed to search for themselves. In this country we cannot secure the rich old pastures of England, because we cannot secure variety enough of grasses—which meant fifteen to twenty kind—to give a close bottom and offer that succession of herbage best for the health and growth of animal life. Our droughts, and especially our winters, operate against the richness of the pasture. We have rainfall enough per annum, but it is not distributed enough to give the regular top-dressing so essential to continuous greenness on an average of seasons. On putting an average beast upon green grass without any grain or cut fodder there is no going back, neither is their much progress in flesh making. There is is their much progress in flesh making. growth of bone and muscle, but comparatively little finishing on the outside or inside. So then we can make the frame in the field, but not complete it for the home or foreign market. In this respect they could not possibly compete at present with some other parts of the world. What applied to beef making also applied to the making of milk. He would divide the subject of green fodder into six different all possible six different all of which were der into six different elements, all of which were highly necessary to have in order to produce the required steady and constant supply of green fodder. These were as follows:-(1) An early cut, (2) repeated cuttings from the same plant in one season, (3) a sufficient number of kinds to afford an unbroken supply of succulent herbage, (4) the

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kinds to differ in constituent element—that is in their chemical properties, (5) the largest possible produce per acre, and (6) a high fattening and milking property. Prof. Brown then went on todiscuss the question of the rotation of crops and the value of different kinds of crops for fattening purposes, and from the statistics submitted he affirmed that soiling possessed (1) the advantage of being able to maintain one head of cattle per acre instead of three acres by grazing, (2) that there is a great saving of food in avoiding destruction by cattle traffic, (3) that where we have apparently useless quantities of any kind of straw, chaff, and hay, good or poor in quality, they can be safely used in association with the moist green fodders, (4) that we obtain fully double the quantity of manure by soiling than by allowing it to have its own way in the field, (5) that it gives greater production of milk and flesh on an average, (6) that it gives greater variety of material and allows uniformity of management, which gives greater health and comfort and less liability to accident. 7th. It is well known in soiling experience that cows give a greater flush of milk from good early pasture than from having the food taken home to them. The change from winter confinement to the rich and plentiful supply of grass, along with the lazy conditions under which they obtain it, does this. Were this grass to continue there would certainly be much less in favor of housing, but it rarely keeps up, and while there is not so much milk in April and May and part of June, there is a continuous flow with no falling off through July, August and September.

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-Diagram

of

The Rose.

Roses will do well in any ordinary garden soil that is free from standing water and well drained. When there is too much clay the soil can easily be made sufficiently friable by the application of wood and coal ashes, lime, stable manure, &c. When on the other hand a soil is sandy or too light, we need to bring clay, leaf mould, &c , to give sufficient body. Pruning is best done in November or March, though, to secure a good crop of flowers in the autumn, it is necessary to prune immediately after the first flowering is over. In regard to manuring we would say that there must be a generous application if we expect a generous yield of flowers, When roses are planted in the spring it is better not to dig in much manure about the roots, but rather apply as a surface dressing. This will at once be nourishing, keeping the roots cool and prevent suffering from the droughts of sum mer. The following autumn or fall after the roses have been planted, there should be again applied as a mulching, a free application of stable manure, which may be dug in the next March. We find cow manure the best fertilizer on the whole, that we have tried, though all kinds of farm manure are good, as are also bone dust, soot, guano, &c. We know some amateur florists who complain that they are always unsuccessful in the culture of roses. This may be partly owing to want of sufficient attention to manuring, pruning and cultivation at the proper time. Another cause of failure is that instead of planting the common, hardier varieties, they select such as require the care and attention of professional florists.

Two Pictures.

At the late meeting of the Ontario Fruit Growers' Association, Chief Johnson, of the Six Nation Indians, took a prominent part in the business of the day. Six of the Grand River Indians are members of the Association. They are a lawabiding, prosperous people. Look now at the other picture as represented by an American paper:

"It has been estimated that it costs our Government \$2,500 and two lives to kill an Indian! It is estimated there are about 350,000 Indians left in the United States. At this rate it would cost 700,000 lives and \$875,000,000 to settle the Indian problem in that way. It would be interesting to know how much it would cost to train every Indian boy and girl to useful industry and make good citizens of them."