The Cutlook.

The farmer in these days who neglects to read one or more agricultural publications, or participate in farmers' conventions, or participate in farmers' conventions, or devote a certain amount of attention to experimental work, will die poor. Yarming is becoming a scientific vocation.

It is only exasperating to be told that the farmer of the present is better off than his pioneer grandfather. It would be marvelously strange if he were not. The pioneer often lacked the coarsest bread and irequently the most ordinary comforts; but, for all that, he was the richest man in the community. Then, every time he invented or purchased a machine which added to his power of labor he reaped the full benefit of this extension of his earning capacity; so that his condition rapidly improved with the advancement of the science of farming. He has no such opportunity of bettering himselt to-day. The facilities for agriculture have improved a thousand fold since the old day of the U. E. Loyalists, but the grandsons and greatgrandsons of these men have not profited proportionately by the increase. As a matter of cold fact, the farming class seems at present to be sliding down the reverse side of the hill, in spite of the new farm machinery that inventor and machine shop are uniting to turn out in an almost unbroken stream.

The Queen's Highway.

The Queen's Highway.

—So long as the improvement of the country roads depend entirely upon working out the poll taxes, or, in other words, having 'road-making sociables' in each township once a year, the present state of affairs will not materially change. On the other hand, were all road taxes paid in cash, and all work of improvement and repair done by skilled labor, under the direction of competent road engineers, it would not require many years to make great progress towards improvement.

—Governor Wiman, of Michigan, has secured the authorization of the appointment of a special commission to look into the feasibility of employing the convict labor of the State in constructing a system of public roads for the State. No subject larger than this ever entered into the politics of a State, Hitherto the subject has not gone beyond the stage of magazine and newspaper discussion. It has been too large for small statesmen to handle. It is now destined to become and to remain the one measure of public importance until its fate is settled by intelligent discussion one way or another. It is unlikely that the farmers of the country are unappreciative of the economical importance of good roads. No labor-saving machine that a farmer uses is more useful than a perfectly-constructed highway. Though the farmer knows this better than any one else, no one better than he knows that roads cost money.

Smut in Wheat and Oats,

Smut in Wheat and Oats.

—A bulletin recently issued by the Michigan authorities says that smut in wheat and oats can be prevented if farmers would soak their seed in warm water for fifteen minutes. Of course the water must not be so warm as to destroy the germ of the seed. The plan generally followed is that of dipping the seed into water at a temperature of 135 degrees Fahrenheit for fifteen minutes and then spreading it out to dry. This plan, it is said, not only destroys the smut germ, but promotes germination of the grain and increases the yield. The bulletin says:

The smut of oats and the stinking smut of wheat are parasitic plants.

The spores of these smuts attack themselves to the kernels of oats or wheat and are sown with them.

The spores germinate at about the same time the seed germinates, and in some way enters the young plant and live upon it until, finally, the head of smut appears.

Both of these smuts can be entirely prevented at a slight expense by the hot water treatment.

The Poultry Yard.

quantity. Then the soil is drawn upon, and the more available the food is the more vigorous and rspid is the growth of the young plant. And when the manure is in the soil it is acted upon by it by reason of the power of porus substances to oxidise and decompose organic matters, and thus the manure is rapidly dissolved and changed into food for the erop. This does not occur when the manure is spread on the surface, and the decomposition is then very much slower. So that it is the best practice to plow in the manure at the first plowing, and the interval between this and the second one gives time for the decomposition of the manure and the preparation of the food which the young wheat needs more than at any other time. For a good start is more than half the race.

Orchard and Garden.

pay for the trouble and time needed.

—White clover stands first as a honey plant, and linden second. The blossoms of the latter are peculiar. They are yellow in color, and arranged so that the neetar is easily gotten by the bees; and they can load up quickly and heavily.

—The experiment of Schonfeld, in Germany, seems to prove that the ripening of honey, or the change from neetar to honey, is a process of evaporation only. Digitary.

many, seems to prove that the ripening of honey, or the change from nectar to honey, is a process of evaporation only. Dzierzon, however, thinks that this condensing process is performed by the direct action of the bees. He says: "It seems we can reasonably suppose that the honey stomach of the bee is like a filter, allowing the water to pass through its walls. I believe nectar would much sooner turn sour than thicken to the consistency of honey inside of the hive." Schonfeld, in his experiment, formed a colony of young bees only, which he knew would not and did not go out in search of food. To this colony he introduced a comb filled with sugar syrup, but inclosed in wire cloth. Then he fed this colony the same kind of thin syrup. At the end of seven days the fed and stored syrup was compared with the screen-inclosed syrup, and only an insignificant difference was ascertained in favor of the first named. The syrup in the inclosed comb had not soured, and was so nearly of the same consistency that Von Planta, who made the analysis, thinks it questionable whether, in this process of concentration, the organization of the bee plays any part at all. the organization of the bee plays any part at all.

The Flower Garden.

The first few inches of soil under the of a good potting soil. Experience has shown that the addition of some leaf mold of a good potting soil. Experience has shown that the addition of some leaf mold —more or less—will improve the character of the soil. The leaf mold is the vegetable soil or mold found on the surface of the ground in woods, and is formed by the decay of the leaves which fall from year to year. A general rule which gardeners sometimes observe is to increase the quantity of leaf mold for fine-rooted plants and to use less, or none of it, for those which make strong, coarse roots. The nice proportions, if worthy of notice, are to be learned only by experience. A soil which will suit a great variety of plants may be composed of three parts loam from an old pasture, as described, and one part leaf mold, and another part of sand to make the soil porous and insure free drainage. Now to this mixture may be added more or less manure, according to what is desired to be accomplished with the plants. For ordinary house plants one part of well-rotted cow manure may be used, and the whole compost will be suitable for most purposes.

THE HORSEMAN.

and the decomposition is then very much shower. So that it is the best practice of the manure at the first plowing, at any the time and the state of the manure and the preparation of the food which the young wheat needs more than a day other time. For a good start is more than half the race.

—Santa Clara and Garden.
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—The largest bean patch in the world is enough prone to the time. For a good start is more only of the possibility of the state of the same and the first start is an accordance of the same and the start of the start of the same and the start of the same and the start of the same and th

Why anyone should want to cover up the most expressive and beautiful feature of a fine horse with a square piece of leather it is hard to see, and why in harness more than under saddle. If nature had intended that he should only see straight ahead she would probably have placed his eyes on the end of his nose; but as she intended him to look before and behind and on all sides (if man would let him) she placed them where they are. The idea that partly covering his eyes and restricting his range of vision makes him safer and less apt to acare, seems queer indeed. It would certainly appear more reasonable that he should be cared when familiar objects are distorted and assume strange shapes by a partial glimpae of them, or when things that are new appear grotesque and fearful for the same reason, when if fully seen they would accreely excite curiosity. It is sometimes said that a horse in an open bridle will become lazy, by watching when the whip is ready for use and when it is not. It may generally be said that a lazy horse is the fault of a lazy driver. If the horse is kept well in hand, and held up to his work by an alert and watchful driver, he will not be lazy unless of a very slurgish disposition. By all means, give your horse an open bridle for carriage, wagon or plow, as well as for saddle work. He will enjoy it, and you will take more pride in looking at him. Why anyone should want to cover up the

LEGAL QUERIES.

month, thanky, the shoot of smut appears, everted at a shiple sepace by the low over the resumant.

The Polity Yard.

—On some forms mith a plentiful, solid specially skin-mails or batternills, which shows that the shiftline of some last mails appeared by the common that it is that they are the shown that the shift is not the shiple ship the shoot of the ship that they are the ship that the ship that they are the ship that they are the ship that they are the same sick and washly she, such as the same she should be the she that the she should be should

THE HORSEMAN.

The speed that the horses are displaying this year is simply marvelous. The 2:13 class is already a considerable one, and 2:15 is getting to be quite ordinary time. Horses that either had no records at all last year, or were very slow ones, are now ranking among the world-beaters, and horses that have been fast in previous years are now faster than ever. Many of the records have been broken.

The horse that is appreciated on the market is a good specimen of some distinct class. There may be such a thing as a general-purpose horse that can occupy a place on the farm, but when the cities are reached this idea must be dropped. Business men either want draft, driving or saddle horses and they want them distinctly of their kind. The classification of horses in the large horse market is of great in-



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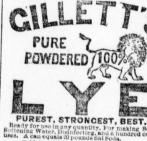
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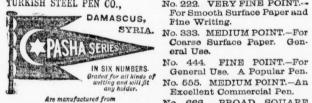
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