

FACTS FOR FARMERS.

Prof. Draper Tells How to Forecast Storms.

Practical Hints on Getting in the Clover Hay Crop.

The Bates Short-horn—Applying Insect Powders—Exercise for Cows—The Carrot Crop—Salphur for Swine.

[Correspondence from practical farmers, cheesemakers and others directly interested in dairying or agriculture in any of its branches is respectfully solicited for this department of the Advertiser. Subjects should be of general interest to the farming community. Write briefly, to the point, and on one side of the paper.]

How to Tell Weather.

There are more ways than one of looking at a proverb. Even those of Solomon will not bear a universal, cast-iron application. They are not all to be taken with rigid literalness. The Wise Man said: "He that observeth the wind shall not sow; and he that regardeth the clouds shall not reap." In the sense intended by Solomon, that is all right, but still the farmer in haying and harvest especially, often casts a watchful eye toward the morning or the evening sky and if he gets his DAILY ADVERTISER before breakfast he will carefully note the "probabilities for the next 24 hours." No doubt farmers and other people as well may worry and waste time over the weather; but it is an important subject that interests nearly everybody. Hence at this season the following from Prof. Daniel Draper in the Chicago Inter-Ocean will be timely:

Benjamin Franklin was the first to discover that storms in this country travel from west to east. He was interested in observing an eclipse, and found that while the observations were spoiled in Philadelphia by a rain-storm that came on just at the beginning of the eclipse, the sky was clear at Boston until after the eclipse was over. By communicating with inventing towns he learned that the storm traveled eastward at a uniform rate. Simultaneous observations taken in all parts of the country show that nearly all great storms follow the same general direction—from the west to the east. The same is true of cold or hot waves. Therefore to tell what the weather will be, in advance, we have only to find out the conditions prevailing west of us. This is practically the course pursued by the signal service.

The direction of a storm is frequently diverted by some local cause. A low barometer, or large amount of moisture in the air, attracts a storm, and may either change its course entirely or hasten its advance. The rate at which a storm travels between two points is, in fact, calculated by the gradient or declivity of the barometer from one point to the other. When a storm is advancing the wind blows to meet it. Thus a wind blowing from the east or southeast indicates the approach of a storm from the west. When the storm comes, however, the wind changes and follows the storm. If a person has a good barometer and a wind gauge he can tell pretty correctly when a storm is coming. Without the instruments the clouds may be watched, and when seen to be moving rapidly from the southeast, and there are indications of much moisture in the air, a storm is not far away. The old Scotch saying that "A red sky at night is the shepherd's delight. A red sky in the morning, shepherd's tale warning."

is partially true in this country. The red sky in the morning indicates an excess of moisture in the air, and a storm is therefore likely to occur before many days.

The circle around the moon, or lunar rainbow, shows the presence of moisture in the air. Moisture at a high altitude produces a large bow and at a low altitude a small bow. The sunnier the bow, therefore, the nearer is moisture, and consequently, the sooner will the storm develop. The old saying that the number of stars to be seen inside of the circle indicates the number of days before the arrival of the storm is not reliable, as the position of the moon in the heavens may make the number great or small without regard to the storm conditions. All attempts at predicting the month in advance are mere guesses. Such superstitions as trying to forecast the severity of a winter by the thickness of the barebreast of the goose or the fur of animals originate in some quarter and are not worth the circulation and attention that they receive.

More About Haying.
T. B. Terry, the widely-quoted American agricultural writer, contributes the following on "Haying." Some would think he puts his clover before it is sufficiently mowed, but when the weather is "catty," like this season, the trouble is to have it at all. Several of his hints are good. Read them:

"In late years I have omitted the cooking up almost entirely, but nevertheless I think I make choice clover hay. The reason is this way: When the weather is clearing after a storm, and the prospect is good for several fair days, I mow six acres in the afternoon, beginning about 2 o'clock. It is so cool, and partly cloudy, perhaps, then that the clover will not wilt so as to be injured by the dew that night. The next day, when it gets just dry enough, which is usually about 9 o'clock, I rake it into large windrows. After my machine I can rake it in such a way as to turn nearly all the heads in one direction to take the dew. About 9 o'clock the next morning, when the wind is dry and warm on top, we turn them over with forks, just roll them over about as fast as we can walk. In an hour or so they will be quite dry and warm clear through, and the dew will have been turned out of the heads. While my men are drawing in in the afternoon I mow some more, if the weather prospects are still good, but not so much this time, as there is now more danger of a storm coming. The time to let out is at the beginning of a fall spell. You will notice that the simple turning of the windrows is all the hand labor I put on the crop until it is ready to go into the barn. Instead of days of hard labor in cooking up, putting on or taking off caps, etc., my men is at work in the potato field, or doing some other work, but he can earn me very much more money. Of course, if at any time during the days the hay is out the weather becomes threatening, all hands are called to cook up or save it the best we can under the circumstances, but we put hand labor on the crop only when necessary. Nothing new can be told to old growers of clover, but some suggestions may be of use to those who are new. When in full bloom if you want the choicest hay, this is vastly more important than the saving of every individual leaf when you are haying it. It is cut when the blossoms are turned in will cure much easier, but the value will be decidedly injured. I do not see this from analysis, but from long experience."

once in feeding. Those who leave their clover until nearly all the heads are brown simply ruin it. Some friends have written me: "But you are a little farmer; what are we to do with our 50 or 100 acres of clover?" We cannot possibly get it all in so soon. It is there a compelling one to raise more of a crop than he can save properly. I would not. I should have a field of clover cut to later, or make up the shortage in fodder with Hungarian grass or ensilage corn; or possibly a silage for the clover would be the best way out. Always draw in clover hay in the hottest part of the day. When it grows cooler toward night your hay grows damper, taking the water from the air which can no longer hold so much in suspension. Under ordinary circumstances, do not draw in after 6 p.m. Have your men tight, also, and as soon as the last load is in about all doors and windows, so as to keep the cooler night air out. The warm air rising from your hay-mows, if it strikes cooler air, will deposit its moisture on the surface of your hay. I tramp clover hay as little as possible when putting it in the bays. The next morning, before drawing in more, we tramp solidly. You have no doubt noticed that if there is any poor hay in the bay, it is where the man stood who did the pitching back. Avoid standing there as much as you can. Where a horse-fork is used, put strong planks across the beams, over the center of the mow, and let the fork discharge the hay on these planks; then two men can toss it loosely to either end of the bay, and will not find the hay heavy forks have fallen. It is on just the same principle that I avoid, as far as possible, tramping the hay when it is thrown in.

Bates Short-horn.
Mr. Richard Gibson, the well-known breeder of Delaware, is writing an interesting history of the Bates Short-horn which is appearing at intervals in the Breeder's Gazette and the Canadian Live Stock Journal. From his chapter regarding the "Duchesses" we select the following: "The history of the Duchess tribe is so well known that but little new or of interest can be supplied at this late date. Suffice it to say, after stripping it of the romance attached prior to the purchase of the original cow by Mr. C. Colving, in which Stanwick Park figures, like a soldier, a soldier's husband in the far distant wilds of America, and a wicked wife making things lively at home—who to obtain funds to carry on her high jinks not only cut down the old Stanwick on the estate but also sold the much-prized herd of cattle which had been kept in its purity for over 200 years—Mr. C. Colving now appears on the scene, and by the purchase of the last of its race saved it from an ignominious death at the hands of the butcher to become the ancestor of the most valuable tribe of cattle of this or any other breed. I say stripped of this romance, for history, the fact still remains, not only on the authority of Mr. Bates but also of Mr. C. Colving, that it was an extraordinary good sort."

"Without the Duchess tribe Mr. Bates' success as a breeder would have been on a par with his contemporary breeders. But he recognized this, and devoted his energies toward developing it; refusing to sell inferior, and in any case, he early asserted the rights to first honors at a bull-breeding sort, and which it has maintained from the time of the start to the present time. What tribe of cattle has produced the number of good bulls? What tribe combined have?"

The Use of Carrots.
Andrew Goetz of Indiana writes in the Philadelphia Farm Journal as follows: "Carrots are not appreciated in this country as they are in Germany. In Germany they are fed to all kinds of animals including poultry. They do the horses good, make more milk and of a richer color. They may be fed to cattle and horses, or cut with a spade in a box or a root out. For poultry they should be chopped fine. When mixed with mangel, wheat chaff and a chop of straw or hay, put in a half bushel of the fodder and a peck of the roots. This is good food for horses when not at work, but when at work put in some oats or bran. This is the way we feed in Germany. The carrots are cut with a spade in a box or a root out. For poultry they should be chopped fine. When mixed with mangel, wheat chaff and a chop of straw or hay, put in a half bushel of the fodder and a peck of the roots. This is good food for horses when not at work, but when at work put in some oats or bran. This is the way we feed in Germany. 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