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Agriculture.

Rot and Mildew in Grapes.

A correspondent of the Country Gentleman, who has given much attention lately to the subject of grape rot and mildow, treats it at length in the following terms :-

enous growths can injuriously affect plants of the higher order, like the grape, only when they are in a debili tated condition and there is an interruption of the processes of elaboration of the plastic material, during which elaboration the plant, by its vital functions, is enabled to resist the ad YEAR. vance of germinating funguous spores. case of the grapevine is, as a general rule, brought about by two separate causes : First, the partial exhaustion of the soil in the inorganic and organic elements of plant food-the grapevine, as well as any other fruitor mineral substances in the soil, and notably the saits of potash and phosphorie acid, together with a corresother organic substances, which are furnished partly from the soil, but chiefly from the atmosphere. The

1. Rot and mildew and other fun

2. This debilitated condition in the bearing plant, demanding inorganic ponding proportion of nitrogen and

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other.





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A WEEKLY JOURNAL DEVOTED TO LITERATURE, AGRICULTURE, AND NEWS.

AGRICULTURE THE TRUE BASIS OF A NATION'S WEALTH.

FREDERICTON, N. B., JULY 5, 1879.



make splendid crops, without the in- and sheep to furnish mutton and cloth- keep that will pay better, if as well. basin is formed below a certain line tervention of artificial heat. And so ing. But beyond this, he must keep The mountain is the natural habitat in which water will settle and remain in washing sheep, and we have selof the tender kinds of native grapes, something from the sale of which, he of the sheep and other things being until it can escape by evaporation. dom participated in such an operation long and well sprung, giving rotundity econd cause of debilitation arises from the sudden changes of tempera-ture. According to the distinguished when they are trained along a wall, can raise money for the payment of equal, hill or mountain pastures are The result in such cases must be poor without having our indignation arous of body; short ribs of good length, and more or less protection afforded his taxes and other cash expenses, to be preferred, but the sheep has crops, much poorer than if such land ed by the cruel, brutal way in which giving breadth and levelness of loin; botanist Sachs, all plants perform the functions of growth and developement by projecting roofs or partial cover of and we believe that sheep husbandry been so long domesticated that his were ploughed shallow. Drainage is some of the men employed would hips good length from point of hips functions of growth and developement anything, which, while it does not will answer this purpose better than natural habits have somewhat changed what such soil needs and then the seize the sheep by their wool plunge to rump; hams thick, round and deep, and as a rule, he will do well any- plow can be put down with impunity. them into cold water, nearly strang- holding their thickness well back and and active evaporation and radiation, bandry and failed of success, but, we and good water. Another requisite mit of deep plowing is when the soil as to cause them unnecessary fright set on high up; legs short and fine, LOW RATES one hand, or rise above 122° on the other. Thus the vital functions of the plant may be partially arrested, and active evaporation and radiation, bandry and failed of success, but, we and good water. Another requisite is plenty of shade trees where they is plenty of sh other. Thus the vital functions of the plant may be partially arrested, intercepted, or at least rendered less soil and temperature are best suited which the business requires. Sheep sheep will not thrive in summer for by a thorough system of subsoil-

which in case of those plants most to the vine, as on the grape-produc- husbandry derives its profits from two where this is neglected. In lowland ing and manuring the depth of the under the water to rinse off the mud, affected by rot and mildew will be ing islands of Lake Erie, the vine sources both of which must be care- pastures this is the only substitute soil and its producing capacity can be We think the sooner such washing is tound to be between 50° and 113°. now rots and mildews nearly as badly fully considered, the early maturity possible for the lower temperature greatly increased. Not every farmer discontinued the better it will be for But during the processes of growth, as elsewhere, notwithstanding there of the carcass and the quantity and and cool breezes which his natural is able, either for lack of team or the sheep husbandry of the country.

the transformation of plant food from is no perceptible change in the winter quality of the wool. In these days home, the mountains afford. its crude state into plastic material, or summer temperature, or in the of railways and markets, the former The winter management of sheep soils in this way, and unless it can be and its assimilation by the plant, bygrometic condition of the atmos- is the grand object of the producer, is of still greater importance, for fatal

takes place most actively and nealth-fully at something near the mean of 80° ____ fully, without manures or fertilizers be the object of the breeder therefore, they are subjected by the rigor of our face and subsoils do not materially and if deprived of them too early, this point altogether. As butter these processes being slackened and of any kind. During the earlier part in the first place to select his breeds climate to confinement at the barn differ; such are deep clay loams and tuese processes being stackeded and finally arrested as the temperature of this term, rot and mildew were with reference to the quality of their that they are the most liable to dis-soils formed by a deep deposit of alln. and possibly subjected to severe colds are at their best, has naturally a light falls on the one hand, or rises on the scarcely known, but in later years mutton, and second, for the quality of ease. They should not be kept too vian. A good example of the former from cold snaps, and perhaps from golden color, and its flavor and aroma both have developed to such an extent their wool Having selected a good warm nor yet exposed to driving may be found in Arestook, on the cold storms. As farmers used to are then the finest, the consumer very that their crops have become almost breed, the one that combines as nearly storms. They require and must have Kennehec River, and other places, and manage their flocks, the safer way innocently connects, the fine flavor 3. The functions of the plant being that their crops have become almost breed, the one that combines as hearly storms. They require and must have hearly storms. They require and that their crops have become almost breed, the one that combines as hearly storms. They require and that their crops have become almost breed, the one that combines as hearly storms. They require and that their crops have become almost breed, the one that combines as hearly storms. They require and that their crops have become almost breed, the one that combines as hearly storms. They require and that their crops have become almost breed, the one that combines as hearly storms. They require and that their crops have become almost breed, the one that combines as hearly storms. They require all the store of the latter on the broad belts of in. seems to point to the important con- ton and good wool, everything de- naturally so well protected from the terval or bottom lands which are found to retain their fleeces until warm butter good unless bearing this pleassideration that while soil, situation pends on the breeder as to whether cold, that except in the case of cold on the Adroscoggin. In such soils weather is fully established, say about ing tint. Now, as the natural colorarrested by a too high or too low temof resisting the attacks of fungi, and an approach to both these extremes of remerature favors the developperature, it is deprived of the power have a warm shelter with a tight roof the favorable action of the rain, air now than they did twenty or thirty flavor, the color at its best is only an of temperature favors the develop-ment of certain fungi, the assaults of ment of certain fungi, the assaults of which are made when the grapevine its original fertility, by the liberal in looking over a lock of sneep, it where they can return a and substitues of fertilizers, especially the salts will almost always be observed that drenching rain in winter is damaging tility which have heretofore been behas the least power of resistance, and the fungi have the greatest power for the state and phosphoric acid. some of the animal, the food and treat- to sheep, as their fleeces will hold a point of water which will rest amount of water which will rest amou 8. Successful grape growing then ment being precisely alike, will fatten large amount of water which will re- land when plowed deeply will stand the idea of yarding and housing sheep butter maker to do? As a fictitious attack. Thus the grapevine, under ordinary methods of cultivation, is ordinary methods of cultivation, is not only sufficiently fed with potash, not only sufficiently fed with potash, phosphoric acid and other mineral a state to afford all needed organic there is to the other, and the same fact for any kind of stock. Provender being and are not active being and are not active being and the same fact for any kind of stock. Provender as the subsol where they with a state to afford all needed organic there is to the other, and the same fact for any kind of stock. Provender are not active being and are not active phosphoric acid and other mineral substances, but it is also made to suf-substances, but it is also made to sufand inorganic elements of plant food, substances, but it is also made to suf-fer from the debilitating effects and influences of a high temperature, between the day and strange the result is almost universal it ken and exposure both, and it is not strange the result is almost universal it ken and exposure both, and it is not strange the result is almost universal it ken ar rol. the Chassels in variety, and the Mus- compactness of form, a condensation must depend largely upon the situ- when we plow only five inches we With such careful attention to the no injury, will add to the consumer's the Chassels in variety, and the Mus-cats and Hamburgs, with which the of substance and beautiful proportion ation and object of the breeder. With such careful attention to the no injury, will add to the consumer's welfare of the flock, it may be advis-happiness as well as the producer's mildew or rot. 4. The vine districts of Ohio, Indiana, Illinois and Missouri, so far as climate is concerned, are liable to great extremes of temperature between summer and winter, and also tween one summer and winter, and also tween one summer on winter and solution and solution and object of the breader. If he lives near a city or large village, but the mechanical improvement in the time that the time t Training the Tomato A report of the Maine Pomological ween summer and writer, and also between one summer or winter, and also another. The same wide divergencies charactarize the atmospheric condi-tions in summer—sometimes the vine having to submit to blazing bot and constructed for a peculiar system, thaving to submit to blazing bot and charactarize the atmospheric condi-tions in summer—sometimes the vine having to submit to blazing bot and charactarize the atmospheric condi-tions in summer—sometimes the vine having to submit to blazing bot and constructed to be equal in the having to submit to blazing bot and constructed to be equal in the having to submit to blazing bot and constructed to be equal in the having to submit to blazing bot and constructed to be equal in the having to submit to blazing bot and constructed to be equal in the having to submit to blazing bot and constructed to be equal in the having to submit to blazing bot and constructed to be equal in the having to submit to blazing bot and constructed to be equal in the having to submit to blazing bot and constructed to be equal in the having to submit to blazing bot and constructed to be equal in the having to submit to blazing bot and constructed to blazing bot and constructed to be equal in the having to submit to blazing bot and constructed to be equal in the having to submit to blazing bot and constructed to be equal in the having to submit to blazing bot and constructed to be equal in the thaving to submit to blazing bot and constructed to be equal in the than this. The best should be select-to this structed the there there thing better than the Merino, though the delaced is the there thing better than the Merino, though the delaced is the total to this rule there thing better than the Merino, though the delaced is the total to this rule there there thing better than the Merino, though the delaced is the total to this rule there having to submit to blazing hot and humid days, with cool, or even cold and dewy nights, and in others to un-drouth, with the mercury at 120° to 125° at 2 o'clock, and twelve or four-teen hours thereafter to a fall of 40° or 50° sheltered location, and strong tomato +..... plants were procured, which had been How to Manage Celery. started under glass, and contained should not be plowed deep with the Set celery in shallow furrows, drawn one or two blossom buds. These were expectation of prosent profit, but sub- four feet apart by a light plow. The planted near the stakes. The plant

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that would be benefitted by plowing to time drawn up around it. It is not twelve inches deep, but they are necessary to hold the plants after the scarce.' The rule may be said to be: first operation. The only precautions Never turn up over one or two inches are, not to earth up too much at a of unfertile subsoil in one season; time, and to be sure that the earth is and when so turned up the land fine, and not lumpy or cloddy. Care should receive a dressing of ma- should also be exercised to prevent nure.' any earth from getting between the

stems of the outer and inner leaves. Washing and Shearing Sheep. We question the policy of making

Berkswire Swine.

any pretence of washing sheep. We The following are the approved believe the practice often results in points and marks of Berkshire Swine : injury to the sheep, and, from the Color black, with white on feet, manner in which it is done, but in- face, tip of tail, and occasional splash creases the difficulty of determining on the arm. While a small spot of the true value of the wool. It is the white on some other part of the body next thing to impossible to wash does not argue on impurity of blood, sheep in cold water anything like vet it is to be discouraged, to the end clean without keeping them in the that uniformity of color may be atwater so long as to imperil their tained by breeders. White upon one health, and the amount of dirt re- ear, or a brouze or copper spot on moved generally depends upon the some part of the body, argues no imhonesty of the washer. Even if the purity, but rather a reappearing of owner of the flock is honest, his em- original colors. Markings of white ployees may not be, and the result is other than those named above are susthat many lots of wool claiming to be picious, and a pig so marked should washed contain nearly as great a be rejected. Face short, fine and well proportion of dirt as others which dished; broad between the eyes; ears make no pretence of washing. If generally almost erect, but sometimes buyers would generally agree to dis- inclined forward with advancing age, courage the practice of washing sheep, small, thin, soft, and showing veins; the matter of buying wool would be jowl full; neck short and thick; simplified. shoulder short, from neck to middling

We have had considerable practice deep from back down ; back broad and

Coloring Butter.

A dairyman asks whether we regard dressing or both, to treat his shallow Now, the next question, after hav- it as a morally right to color butter,

grapevine is making a comparatively and its final extinction. slow growth, and ripens wood and ----

fruit equally well. Hints on Sheep Husbandry

improvement in a good point already It is an old and true saying that soiling and heavy manuring for a plants should be six inches apart in was then tied to the stakes with listing, AND AT LOW RATES or 50° LOW RATES changes of temperature and atmos-had an inevitable tendency to weaken of the ittest, he will soon find that he question which has been much dis-plowed. Deep clay loams and al- of planting, there is no occasion for as to compel the plant to grow on a phere are most marked. During and after electrical storms, with heavy inter interrunted or followed by after electrical storms, with heavy rains, interrupted or followed by bursts of sunshine which almost scald, and followed by warm and wet, or cool and very dewy nights, both rot and mildew immediately appear in their most active and virulent forms. their most active and virulent forms.

On the contrary, where the summer season is long, warm and dry, but not be show and dry but not be sho well known principles which must adverse to funguous growth, then the accomparatively well known principles which must adverse to funguous growth, then the error in practice, or the result will be a rapid deterioration of the vine, be rapid deterioration of the vine, be rapid deterioration of the of the selection of the best, applied nearly spoiled for present use. So the character of the surface and the drawn around it to the height of celerated, and its flavor is improved both to ewes and rame, and in due far as the average of New England subsoils were, the plow should go in several inches. The operation is very because every part of the plant is ex-

time, they will find their flocks sys. soils is concerned, this dogma was to its beam. But these men are be-tematically improved, and will be the greatest nonsense and farmers ginning to get their eyes open. Mr. quires some experience before it can and air. It is not soiled by coming 6. So, when foreign and tender va-rieties of grapes are planted out of It should be the object of the farmer well reput for the care which they were not long in finding it out. The Geo. E. Waring, Jr., in speaking of be skilfully done. In our own in contact with the ground; is not so reties of grapes are planted out of testolite of the contact with the ground; is not so doors, though ample soil and border to keep those domestic animals which have best wed upon them. The net extreme depth advocated then has the results of ten years' management practice, we have found that three apt to decay, and more ripe tomatoes doors, though ample soil and border to keep those domestic annuals which have been to decay, and more ripe to match and the found that three apt to decay, and more ripe tomatoes are made for them, and will pay the best for the food they gleet to prastice these few simple, proved too much even for the prairie of 'Ogden farm,' says: 'About six men, or two men and a boy, working can be raised in a limited space; but eparations are made for them, and will pay the test for the food they give a plastic to very sols of the west where extreme deep acres were, some seven or eight years together, perform the work in the it requires constant care and industry implete winter protection afforded, consume. A certain amount of every common onse rules, has led to very sols of the west where extreme deep

complete winter protection attorded, consume. A certain and the every consume of the failures in sheep hus-they sooner or later suffer and suc-cumb to rot or mildew. But when on the farmer must bandry. cumb to rot or mildew. But when on the farm, and this the farmer must bandry. those same vines are given shelter, keep without regard to direct profit. Sheep hisbandry to be successful when circumstances will admit of it, brought to the surface, was a lasting and with a hoe drawing the earth partment of Agriculture shows an inthose same vines are given shelter, keep without regard to direct proint. Sheep his bandry to be successful when circumstances will admit of it, brought to the surface, was a lasting and with a not drawing the earth injury to the land. It still shows the about the plants, which are held in an are protected from night dews, He must have horses and oxen for requires intelligent and careful manradiation and evaporation, and other doing the work, cows to supply the agement bat when well managed, the nature of the soil. Most certainly, ill effect of the treatment, in spite of proper position by the third. As the in a much better condition than last adverse atmospheric influences, they family with milk, butter and cheese, there is no stock that the farmer can deep ploughing will not do when a time and manure. There are some soils celery grows, more earth is from time year.