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WEEKLY JOURNAL DEVOTED TO LITERATURE, AGRICULTURE, AND NEWS.

ANDREW LIPSETT, Publisher

Agriculture.

Rot and Mildew in Grapes,

A correspondent of the Country

Gentleman, who has given much at tention lately to the subject of grape

rot and mildew, treats it at length in

1. Rot and mildew and other fun

guous 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 inter-

ruption of the processes of elaboration of the plastic material, during which

elaboration the plant, by its vital

functions, is enabled to resist the ad

ance of germinating funguous spores.

2. This debilitated condition in the

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 or-

ganic elements of plant food-the

bearing plant, demanding inorganic

or mineral substances in the soil, and

notably the saits of potash and phos-

phorie acid, together with a corres-

other organic substances, which are

furnished partly from the soil, but

from the sudden changes of tempera-

ture. According to the distinguished

botanist Sachs, all plants perform the

functions of growth and developemen

between two definite limits of tem

perature-limits which never fall be

low 324, or the freezing point, on the

one hand, or rise above 1229 on the

fully at something near the mean

attack. Thus the grapevine, under

not only sufficiently fed with potash

phosphoric acid and other mineral

substances, but it is also made to suf

fer from the debilitating effects and

mid-day and a low one at night. In

4. The vine districts of Ohio, Indi

tion and exposure both, and it is

ana, Illinois and Missouri, so far

climate is concerned, are liable

great extremes of temperature

tween summer and winter, and

charactarize the atmospheric condi

tions in summer-sometimes the vine

having to submit to blazing hot and

humid days, with cool, or even cold

drouth, with the mercury at 120°

teen hours thereafter to a fall of 40°

5. The development and growth

of rot and mildew are found to be most

mildew or rot.

ordinary methods of cultivation,

cause of debilitation arises

ponding proportion of nitrogen and

the following terms:-

VOL. II.

"AGRICULTURE THE TRUE BASIS OF A NATION'S WEALTH.

ANDREW ARCHER, Editor

sain of Works

The number of weeks an advertisement is to be inserted should be clearly stated. When this is not done it will be countinued until ordered out, and charged the full time it has

> any earth from getting between the stems of the outer and inner leaves.

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inserted for 6 months or 1 year on moderate

Berkswire Swine.

points and marks of Berkshire Swine: Color black, with white on feet, 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 less substance, which, while it does

careful to house his flock

We question the policy of making any pretence of washing sheep. Well believe the practice often results in injury to the sheep, and, from the 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 yet 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 bronze 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 bonest, his em- original colors. Markings of white ployees may not be, and the result is other than those named above are su that 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;

the sheep husbandry of the country.

able to shear earlier in the season, profits. - Ex. and so relieve the animals of their oppressive burdens before they will be likely to experience many very warm days. We think if the farmer favorable weather, its welfare will be promoted by shearing the latter part of May, or at least quite early in

How to Manage Celery. expectation of present profit, but sub- four feet apart by a light plow. The planted near the stakes. The plant

The following are the approved

Now, the next question, after have it as a morally right to color butter. ing decided about washing, is, when and thereby deceive the purchaser should sheep be shorn? If allowed into believing its fine color indicates to wear their fleeces too late in the its excellence? We think our corresseason, they will suffer from heat, pondent too morbidly sensitive on and if deprived of them too early, this point altogether. As butter they will be rendered uncomfortable, made at the season when the grasses and possibly subjected to severe colds are at their best, has naturally a light manage their flocks, the safer way innocently connects, the fine flavor undoubtedly was to allow the sheep with the color, and refuses to believe to retain their fleeces until warm butter good unless bearing this pleasweather is fully established, say about ing tint. Now, as the natural color. the middle of June. But flock mas- ing matter has no taste, and really ters take better care of their sheep has nothing in itself to do with the now than they did twenty or thirty flavor, the color at its best is only an years ago, when they did not seem to ornament. And when consumers be fully convinced that shelter is insist upon this fictitious model of valunecessary, and would have laughed at ation, what is even the conscientious the idea of yarding and housing sheep butter maker to do? As a fictitious in summer to protect them from cold test is insisted upon, the butter nights or cold storms. Now our maker has no alternative but to allow most successful flock masters have the consumer the pleasure of tasting suitable yards and sheds and conveni- his butter through his imaginationences for yarding them when the when, looking upon its rich golden weather is unfavorable, and knowing tint, he can smell the clover blosoms the danger of exposing the shorn in January. Why should he be desheep to the influences of cold changes, prived of this pleasure? No, it apwill take the to yard them, and pro- pears to us that the butter making is perly feed them till more auspicious only responsible for the use of a harm-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

Training the Tomato.

A report of the Maine Pomological Society contains an account of a novel method of training the tomato plant Stakes, seven or eight feet long, were inserted in the ground the last of May, three feet apart, in a warm sheltered location, and strong tomate plants were procured, which had been started under glass, and contained Set celery in shallow furrows, drawn one or two blossom buds. These were

Marriela Marden

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

" Undine," the property of M. W. Dunham, Esq., Wayne, Ill., U. S.

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 sel-straight, or a very little arched; ribs of 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 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 aroust 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; 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 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, interferes with the fall of heavy dews Some have gone into sheep hus- where there is enough of feed Another condition which will not adand 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,

intercepted, or at least rendered less active, by extremes of temperature, which in case of those plants most affected by rot and mildew will be found to be between 50° and 1139. its crude state into plastic material. and its assimilation by the plant. takes place most actively and healththe two temperatures, say at 80°these processes being slackened and falls on the one hand, or rises on the 3. The functions of the plant being arrested by a too high or too low temperature, it is deprived of the power of resisting the attacks of fungi, and an approach to both these extremes of temperature favors the develop main point is to keep the soil up to out. ment of certain fungi, the assaults of which are made when the grapevine has the least power of resistance, and the fungi have the greatest power for

influences of a high temperature at fact, the vine is subjected to starvabetween one summer or winter and another. The same wide divergencies ing of two and a half degrees of lati and dewy nights, and in others to undergo the trying ordeal of heat and which they afford against heavy dews. too sudden evaporation, and the frosts 125° at 2 o'clock, and twelve or fourwhich are apt to follow from active

In conclusion, it may be added that several more strong points may be made by more or less clearly pointing out how our grape propogation has had an inevitable tendency to weaken the vine, and finally to destroy its constitution, hardiness and vigor Most hardy native sorts suffer from to the length of time they have been propogated, and bought and sold as nurseries of the country. In the propagation of the vine there are certain

Hints on Sheep Husbandry

cumb to rot or mildew. But when on the farm, and this the farmer must bandry.

7. But even when the conditions of careful and systematic management to emphasize this latter point, for is susceptible of being improved upon, soil and temperature are best suited which the business requires. Sheep sheep will not thrive in summer for by a thorough system of subsoilto 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. 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

from heavy dews and sudden changes it will be found that there is an evi- five to a hundred is about the extreme land that is plowed to the depth of a of temperature, between the day and dent difference of conformation, a number that will do well together, tude, independent of the insurance A lamb should never be preserved other kinds. - Maine Farmer. the bad qualities of sheep are transmitted as well as the good, and no

they sooner or later suffer and suc- kind of stock is necessary for carrying many of the failures in sheep hus- ploughing has gone out of fashion. ago, plowed about twelve inches deep. cheapest and best manner, one man those same vines are given shelter, keep without regard to direct profit. Sheep husbandry 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 inand are protected from night dews, He must have horses and oxen for requires intelligent and careful manbut almost everything depends upon injury to the land. It still shows the about the plants, which are held in 706 acres over 1878. The crops are radiation and evaporation, and other doing the work, cows to supply the agement, but 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

now rots and mildews nearly as badly fully considered, the early maturity possible for the lower temperature greatly increased. Not every farmer 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 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 hygrometic condition of the atmos- is the grand object of the producer, is of still greater importance, for fatal done, shallow plowing is much the phere. For twenty five years grapes and the latter though valuable must diseases rarely prevail in a flock while best were grown on the same spot success- be regarded as subsidiary. It should they are in the pasture. It is when There is some land where the surfully, 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 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 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 alluscarcely 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 Arestock, 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 Kennebec River, and other places, and total failures. This state of affairs as possible, the qualities of good mut- an abundance of fresh air. Sheep are of the latter on the broad belts of inseems 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

sideration 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 and temperature have much to do his flock shall continue to improve or and driving storms they prefer to re- the plow may run deep and the effect with successful grape growing, the whether it shall deteriorate and run main outside. But they should always will be to bring to the surface and to have a warm shelter with a tight roof the favorable action of the rain, air its original fertility, by the liberal In looking over a flock of sheep, it where they can retire at will. A and sunshine, those elements of feruse of fertilizers, especially the salts will almost always be observed that drenching rain in winter is damaging tility which have heretofore been besome of the animals, the food and treat- to sheep, as their fleeces will hold a wond the reach of the plant. Such 8. Successful grape growing then ment being precisely alike, will fatten large amount of water which will re- land when plowed deeply will stand much more readily than others. There quire a long time to dry out. Early a drouth much much better than when conditions: The soil must be kept in is the same attention paid to one that cut hay is better for sheep, and is plowed shallow, because the roots can a state to afford all needed organic there is to the other, and the same fact for any kind of stock. Provender penetrate into the subsoil where they and inorganic elements of plant food, expenses involved every way, but such as shorts, oats, beans, and espe- will find moisture long after the surand in unfavorable seasons some con- when slaughtered one will yield twice cially roots, should be judiciously fed. face has become dry and parched. trivance must be used to prevent mil- as much profit as the other. On com- It is better not to have too many dew or rot, by protecting the vines paring the sheep, one with the other, sheep in one yard. From seventy take double the dressing to fertilize

foot than when it is plowed six inches, strange the result is almost universal night. Those delicious table grapes, fineness of bone, a roundness and The breed of sheep to be kept and the converse is likewise true that of substance and beautiful proportion ation and object of the breeder. exhaust the soil in half the time that tables of the wealthy of Paris are sup- in all its parts, which will characterize If he lives near a city or large village, we do when we plow ten inches deep borhood of Fontainbleau, near that temptation is great, in such cases, probably do better in raising sheep brought about by deep plowing and city, in the open air. But the vines to slaughter and market the fat ani- for mutton than for wool. In that thorough pulverizing, gives much mals on account of the greater present case the Cotswolds and South Downs more freedom and greater feeding breeders. No management could be though not the finest wool, and are advantage which should be taken into more short-sighted and disastrous also good mutton sheep. If his desire account. From this brief discussion ed as breeders and to this rule there thing better than the Merino, though deduced: Wet lands should not be should be no exception nor variation. this animal is less hardy than some plowed deep until they have been

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 cheese, there is no stock that the farmer can deep ploughing will not do when a time and cheese, there is no stock that the farmer can deep ploughing will not do when a time and cheese, there is no stock that the farmer can deep ploughing will not do when a time and cheese, there is no stock that the farmer can deep ploughing will not do when a time and cheese, there is no stock that the farmer can deep ploughing will not do when a time and cheese, there is no stock that the farmer can deep ploughing will not do when a time and cheese, there is no stock that the farmer can deep ploughing will not do when a time and cheese, there is no stock that the farmer can deep ploughing will not do when a time and cheese, there is no stock that the farmer can deep ploughing will not do when a time and cheese, there is no stock that the farmer can deep ploughing will not do when a time and cheese, there is no stock that the farmer can deep ploughing will not do when a time and cheese, there is no stock that the farmer can deep ploughing will not do when a time and cheese, there is no stock that the farmer can deep ploughing will not do when a time and cheese, the cheese and the cheese are the cheese and the cheese are the cheese and the cheese are the ch

foot for all soils. The ists for deep plowing. Every farmer, loosened upon either side of the rows; tomatoes; and the heaviest branches breeders must not expect to make all result was what ought to have been it was said, had a farm under his then as all the leaves of each plant were supported by tying them to but let expected; on some lands it worked lands of great value, where the plow are gathered together and held in an stakes. As the result, the ripening them faithfully practise this principle admirably, while other fields were had not yet reached. No matter what upright position, the soil is gradually of the tomato by this method is acthe 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 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 exsys. soils is concerned, this dogma was to its beam. But these men are be- simple, yet, like everything else, re- posed to the free action of the sun 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 It should be the object of the farmer well repaid 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 have bestowed upon them. The ne- extreme depth advocated then has the results of ten years' management practice, we have found that three apt to decay, and more ripe tomatoes preparations are made for them, and will pay the best for the food they gleet to practice 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 complete winter protection afforded, consume. A certain amount of every common sense rules, has led to very soils 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

will have few if any inferior animals, cussed among farmers, one upon luvial soils, can be plowed deep and shading the plants. All that is neces- single stem; and every week during and the good qualities of his sheep which there has been a great diversity their fertility and capacity will be sary in the way of culture for some the season these branches were retransmitted from generation to gener- of opinion and yet it is one which thereby increased. From the New time after transplanting is to keep the moved, and the stems from time to ation, will not be accidental. They every farmer must settle for himself. York Observer we clip the following soil well stirred between the rows. time were tied to the stake. When a will become a part and portion of the A few years ago extreme deep plough- sensible remarks bearing upon this When the plants have attained a sufficient number of clusters had been with the greatest degree of certainty. agricultural press, and many went so "Some twenty years ago there was commence the operation of "earthing so as to concentrate the whole energies They constitute the practical illustra- far as to insist upon a depth of ten a mania among the agricultural theor- up." The soil is first thoroughly of the plant to the growth and ripening

We believe in deep ploughing, The subsoil of blue clay, which was standing upon each side of the row.

thoroughly drained. Thin soils with a gravelly and worthless subsoil should not be plowed deep with the 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 stake with listing possessed, can compensate for the in- circumstances alter cases, and there series of years will greatly increase the row, and pains should be taken to and all the side branches which had is nothing to which it applies with its capacity for crops, and proportion- have the soil pressed firmly about the pushed at the axillar or angles formed

If the breeder will carefully pro- greater force than to the question of ally, the value of the land. For pre- lower part of the root. If the ground by the separation of the leaves were ceed on this principle of the selection deep or shallow ploughing. It is a sent profit, such lands must be lightly is thoroughly moistened at the time pinched or cut out with seissors, se of the fittest, he will soon find that he question which has been much dis- plewed. Deep clay loams and al- of planting, there is no occasion for as to compel the plant to grow on a

NO. 13 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

Washing and Shearing Sheep.

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 these vines more or less successfully believe that in most cases these fail- is plenty of shade trees where they is thin and the subsoil is gravelly and and suffering, and finally turn them but straight and very strong, with ures have been due to the lack of can retire in hot weather. We desire worthless. This condition, however, out upon the banks so weakened by hoofs erect and legs set wide apart their treatment as to fall down in the size medium; offal very light; hair mud, to be again seized and plunged fine and soft; no bristles; skin pliable

It should be remembered that it will

pronounced and active where these changes of temperature and atmosphere are most marked. During and after electrical storms, with heavy rains, interrupted or followed bursts of sunshine which almost scald,

and followed by warm and wet. cool and very dewy nights, both and mildew immediately appear in their most active and virulent forms. season is long, warm and dry, but not too dry, where all the conditions are grapevine is making a comparatively

6. So, when foreign and tender va rieties of grapes are planted out

slow growth, and ripens wood and

fruit equally well.