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M. MACLBAN, EDITOR AND PROPRIETOR

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HIGHLAND SOCIETY'S CATTLE SHOW.

At the meeting of this Society early in October,a very large party of farmers, noblemen and gentlemen sat down to dinner. From the speeches made on the occasion, which were very numerous, we extract the following from the "Aberdeen Herald" as

touching upon points of interest. Mr. Heriot, of Ladykirk, rose and read an essay on the question, " How far is it a wise and prudent measure to cultivate so largely the short-horn breed of cattle to the risk of the entire loss, or at any rate to the deterioration, of the fine native breeds of cattle?" This essay was merely historical, but evinced a great deal of research, and also of practical knowledge of the ris", pro gress, and present state of the cross breeds, both in Scotland and England. According to this essay, when Teeswater crosses were first introduced to the north of Scotland, farmers were not so well acquainted with the system of the quality of the meat as they are now-that is, they did not know much about the virtues of touching, and as a matter of course, their handling of the catele was none of the best. By-and-bye, however, they got over this difficulty, and then they began to find out that the Teeswater crosses, however pleasing to look upon, felt rather duffy-that was, just like the " sham my leather." (A laugh.) Mr. Heriot then traced the introduction of the Galloway bulls, and corrected what appeared to be an with his knowledge that there was no stock error on the part of Earl Spencer, who, in less pampered than Earl Spencer's. an article in the English Journal of Agriculture, had stated that "most valuable to speak to the second question-" Whethcrosses had been got out of a Galloway bull | er it would be better to feed sheep fat for and Durham cow;" the fact being that the market, or bestow the extra kee; raised in crosses in question had been out of a Gal. this northern district of the country upon loway bull and a short horned cow. But the young stocks; and how far crossing diff. even in this cross, however advantageous it erent breeds of sheep may be carried on might have been thought at first, he supposed | with advantage ?" that by this time the stain was nearly washed the history of the whole Mr. Heriot concluded that after the first cross the quality became deteriorated; that a second cross was not advantageous; and, consequently, far-

was received with much approbation. question. He said he had drawn up some might be adopted with advantage on the observations on the subject of the short horn best grazings, probably, in a general point breeds, which he would read to the meeting. of view, judicious crossing of the Cheviot Mr. Craig then read an essay depreciating stocks by that kind of tups from different the system of crossing, which, he contended, flocks may be the most eligible; and on the must deteriorate the native breeds. The rage over all Scotland was to cross the cows and heifers of the Scotch breeds of all sorts with the short-horn bulls. The consequence of this is, that parties will see their error when it is too late, as the hardy breeds luded, in the outset, to the causes which had of Galloway, Fife, Angus, Aberdeen, and increased the demand for fat sheep-partithe West Highlands, will be gone and the cularly conveyance by steam-and then whole of Scotland, from John o'Groats to stated that he agreed in most points with Berwick, not excepting the Isle of Skye, Mr. Dudgeon. He concluded by advising will be filled with a mixed and spurious the farmers to preserve carefully their breerace of cattle. The first cross will in most ding stock, and proportion their keep so as cases be large and handsome; but then, to prevent the necessity of turning the sheep from the neglect that must ensue (it has al. on the pasture at a time when it was natuready begun) of keeping bulls of the native rally scarce. With regard to black-faced breeds, the supply of pure Scotch cows and sheep, he believed that all who had them. heifers must run out, and the consequence and were aware of what they were about, will be that people must and will breed were taking care never to exceed the first from the crosses; and it is generally allowed that a second cross is a fai ure. What then will happen? In a few years noth. ing will be found in Scotland but a mixed and bad breed of cattle. Many people say they can breed from short horned cattle : so they can, but will that be for their interest? The short hornbreed is soft, delicate, and liable to many casualities, which Scotch cattle are his hogs at home than to send them to teemed in the best farming sections of the not ; and at the same time the former require superior keep and are not so fit to travel the roads. Some again say, we do not want them to travel, as we can now send them to market by sea. Many cannot do this; and, besides, the whole cattle in Scotland cannot be fattened at home for London and mind that short-horned cattle, or even crosses from them, are very inferior beef, gener

soon feel the bad effects of the measure.

The Marquis of TWEEDDALE, in reference to Mr. Crai 's remarks on the aversion of farmers in the north of Scotland to cross heir Leicester with the Cheviot breeds, knew were in Scotl and ?

Mr. Craig, in reply, said he did not be- aheering.) lieve there was one Cheviot farmer in the north of Scotland who would have a ingle drop of Leices erstire blood in his stock if he could avoid it. If there was any such blood amongst their sheep it was by acci-

The Marquis of TWEEDDALE-Where did they ge he tops originally.

Mr CRAIG-From the Cheviot moun-

The Marquis of TWEEDDALE-Just so. agree with Mr. Craig, however, in every. thing he has said; all I wanted was to let it be understood that there is no such thing as pure blood among the flocks in the nor h.

Mr. WETHERALL, the we'l known agricultural auctioneer in Yorkshire, called Mr. Craig's attention to his remark about the way in which Earl Speacer fed his cattle, cation, that I propose to give to the readers and asked-Pray, Sir, did you say that on of the Farmer the remarks which follow your own knowledge ?

Mr. CRAIG-Not on my own knowledge, but on information from a most respectable

Mr. WETHERALL -- Is your informant pre-

Mr. CRAIG-He is not.

Mr. WETHERALL-Then I beg to state, from my own personal knowledge, that Euri Spencer's cattle are fed in the ordinary way, and not in the slightest degree according to the information Mr. Craig has received.

Mr. Wood, Durham, corropora ed this statement, and added that it was consistent

The CHAIRMAN then called Mr. Dodg

Mr. Dunggon argued that the crossing out, and he believed that breeders generally different breeds of sheep might be practised kept as clear of it now as they could. From to much advantage, and carried farther than it has been hitherto, when greater attention is paid to wintering. He was decidedly of opinion that the best stocks of Chevio's in the north had already a share of Leicestermers in the north of Scotland, at any rate, shire blood, and to this they are indebted would consult their own advantage by encou- for their superiority in carcass, wool, and raging the native breed. Mr. Herio's essay propensities to fatten. As sheep-walks vary in their qualities, so would the stock Mr. Craig, of Kirton, also spoke to this vary; while what he ventured to assert interior or wildest ground the black faced or hardy mountaineers, pure or crossed,

would probably pay better than any oth r. Mr. HORNE, of Langwell, W. S., Edinburgh, also spoke to this question. He al-

Mr. Sim, Drummond, remarked on Mr. Horne's speech that it would only admit of pea forms itself on a stem which runs under partial application, inasmuch as it was quite impossible for many farmers to keep their to many of us who have thin lands, the sheep at home at all times.

crosses.

to be the fact, but added that the farmer manure; besides which this rooting is alwould find it more to his advantage to keep most as good as the fallowing so much es.

market in a bare state. The CHAIRMAN-We are willing to hear explanations, but we cannot allow any dis-

cussion on the question. The Duke of RICHMOND then rose, and was greeted with loud and long continued cheering. After alluding to the business of the other large towns; and let it be kept in the evening in a rather serious strain, he jo. cularly remarked upon the schoolboy proverb, "Jack can't always work, but must ally selling at 1s. 6d. to 2s. a stone less than have some little play," and craved a bumthe fine-grained and beautifully-mixed beef per to "The Highland Society of Scotland, of Scotland. Earl Spencer, who is allowed and may it ever be productive of the best to be one of the best breeders of England, interes s of agriculture." [Cheers.] He has a herd of very fine animals of that des. begged now, as a Highlander, if they would cription, but how are they kept. Why, they permit him to be one-[Renewed and proare fed, groomed, and clothed like race longed cheering]-to ask the Highlanders horses; and it is very questionable if there to show their Lowland friends present how are many farmers in Scotland disposed to they could drink the toast with Highland be at that expense, and if they were so in- honors. His Grace remarked that agri. clined, would it not be wiser to give the ex- culture was a question which affected the tra feeding to the best Scotch cattle, which world at large; and, as the Highland Sociemarket? Mr. Craig then argued that the any other institution to promote its exten-

as we do in Scotland, though the climate | serving of Highland honors; and, in drink- | produce. In the 15th vol. of 'The Library | their slaughter. This will insure their be. | thought consistent with a due regard to their there is much better suited to the breed. ing it thus, he hoped their Lowland neight of Entertaining and Useful Knowledge, Short-horn cattle are to Scotch cattle bors would learn how they b st could drink published at Boston, there is a strong resomething as Leicester sheep are to this national toast. [The toast was drunk commendation of this vegetable, from which Cheviot sheep. Now, there is not Che. accordingly, all the company standing with I make the following extract: viot farmer who knows his business in one foot on their chairs and the other on the the Highlands of Scotland but would say table. This is what is called Highland are in some places grown largely for the hat by crossing his hardy Cheviot ewes honors; and certainly, if this is what the with the finest and highest-bred Leicester | Celts unders ood to be a " leetle elevated," ups his stock would be ruined, and his own the system has been sadly misused, for ruin would soon follow. (Cheers.) Mr. now a days it puzzles the m jority of most Craig concluded by urging attention to the dinner parties to get off their seas after the subject, as the whole of Scotland might third tumbler, instead of getting on the table. Here, however, all the company got aloft in capital style.)

The CHAIRMAN then rose and craved a bumper, and, in a few complimentary remarks, proposed " The health of the Duke

From the Mississippi Farmer. FOOD FOR HOGS.

In the las Firmer, over the signature of An Inquirer,' the attention of the public s directed to some of the articles which may be raised as food fo hogs. This is one of the most important items in farming; and I would gladly see the experience of our old planters on the subject, given to the public. To be able to raise our stocks of logs in good order, without feed ng on an article costing so much labor as corn, is certainly a great desideratum-yet one which I am persuaded could be measurably attained, were the proper attention and pains given to the subject. It is merely as hints which I hope may elicit more satisfactory commu-

One of the cheapest articles which can be raised, as food for hogs, a little experience has proven to me to be the common ground artichoke. Tois sweet and nurri tious root is so hrifty in our climate that it may be produced abundantly with no other trouble than that of planting it. Indeed so thrifty and hardy is it known to be, that I have heard several farmers insist that it yielded better without, than with cultivation. may be propagated either by the seed or the root, though by the root most speedily and safely. On an examination of one of the roots, it will be found covered with germs, or 'eyes,' and from each. if planted separately, there will spring a stalk. Hence one of the roots may be cut into a great number of small pieces for planting; and from the rind pared off by he cook when the vegetable is used for the table, (where it is very fine) the plant will spring as well as from the whole roo'. The manner of producing the artichoke which I would recommend-although a very slovenly one -is that the farmer would plant with it in the spring the corners of his fences and the waste spots through his fields. By this means, with no further pains whatever, except (of course) to keep his fields closed, there will be produced by the fall. when he opens his farm to his stock, enough of these roots to keep his hogs in food through the winter. Nor would here be a necessity for replanting in the succeeding spring; for though hogs are remarkably fund of the articooke, and will root to a considerable depth for them, yet they seldom exterminate them from a spot on which they have once taken hold; and the young plants often spring up on the succeeding spring after all their depredations, thicker than ever. The artichoke is so productive that nearly half a bushel of roots may sometimes be gathered from a single stalk.

Another excellent plant for hogs, and one ensily cultivated, is the pindar or gouber pea.' [ground pea.] The yield of this pea is most astonishing, being at the rate of from six to eight hundred bushels to the ncre, if properly cul ivated. A venerable and experienced planter of Madison county, Maj. Vick, as I have understood, has been for a number of years practising what can not but be an excellent system in the cultivation of this plant. He plants it with his corn, be ween the hills, and after the same cultivation, leaves it un roubled to turn his hogs upon in the fall. The advantages which I conceive this pea to possess over any others, are these: it is more productive; it does not rot on the ground (as the the ground; (and, what is of great moment rooting of the hogs for the pea turns under Mr. Horne, in explanation, admitted this the grass and the vines which make a fine world, and leaves the ground mellow and loose and in a fine state for the succeeding crop. If Maj. Vick will give to the public hrough the columns of the Farmer, the be eneficially directed to this plant.

I have also heard the planting of slips of produce many of the same advantages, as nowned commonwealth. it is known that few growths are more ma. nuring, on being turned in, than potato

But from all accounts, I have no doubt by far the most abundant and cheap food killed by the first of January, if the weather we could raise, not only for hogs but for suits, as you will thereby have time enough almost every other kind of stock, would be to salt and smoke your mear before the the carrot. It is said to suit best in a light warm weather sets in. At all events, have sandy soil, as do nearly all the esculent them in readiness to be killed the first suitaroots, and would therefore do well in our ble weather after that period. country. The yield has been known to be Uniess the weather should be very cold invariably fetch a higher price per stene at ty of Scotland had perhaps done more than upwards of eight hundred bushels to the when you kill, it will be prudent in this cli-English do not run so much upon crosses sion and improvement, it therefore was de- indifferent soil and cultivation are said to the open air

the state of the s

consumpt on of stock, e-pecially for horses. It is affirmed that cattle which have at once tasted them, usually prefer them so much to turnips as with difficulty to be made to return to the latter. The milk of cows fed on carro's never acquires any unpleasant flavor, while at the same time the quantity produced is increased. Calves thrive admirably, and bullocks are speedily fartened on this food. Carrots are equally benefi cial as nourishment for sheep, and are de. negged to ask how many such farmers he of Richmond, our newly-adopted Highland- woured with activity by swine. In the short er." [The toast was drunk with great space of ten days a lean hog was fattened by these roots, having consumed during that period 196 pounds. Its fat proved very fine, white and firm, and did not waste in jowl. the dressing. Horses receiving no other sustenance, perform their work as usual without any diminut o. of their sleekness.

As a demonstration of the vast productiveness and nu ritive strength of the carro the following from the same article is also

'A: Parlington in Yorkshire the stock of a farm, consisting of 20 work horses, four bullocks, and six milch cows, were fed, from end of S-ptember to the beginning of May. on the carrots produced from three acres of absorb a given quantity in a given time, and land. The animals, during the whole of this period, lived on these roots with the stock, &c. A bushel of salt to 800 lbs. of addition of only a very small quantity of hay; and thirty hogs were fattenened on the refuse left by the cattle.'

How immensely are we behind the scientific farmers of the older parts of world in thrift and economy! and how dearly are we paying for our neglect of these things! Among us if a farmer were asked o support the above stock, if he pursued the usual course, he would perhaps plant the three acres in corn alone, or with the addition of a few c rofield peas or pumpkins; and with good cropping and his utmost thrift, the produce would scarcely subsist the horses

alone one third of the above time. It will be perceived that all the articles of of no good substitute to the rye, clover, and grasses of the North; and to them we should turn our attention as speedily as pos sible. I fear the melons and cymblings, &c. suggested by 'An Inquirer,' could not he produced sufficiently early to take their place to any great advantage. J. J.

[Note. - As we have not had an opportunity of seeing the author of the foregoing communication, and as we prefer that the name should accompany all original articles in our paper, we take the liberty of stating that it is from the pen of the same gentleman that prepared the able address promulgated last summer by the Raymond Agricultural Society, Joh Jenkins, Esq , one of the Representatives elect from this couny to the Legislature. - Ed. Miss. Farmer.]

GOOSE WHEAT.

Mr. Isaac Babcock, of Rush, has presened us with a small quantity of Goose When in the head, raised by his son H. M. Babcock. This wheat has but recently become known, and is attracting consider. able attention among farmers. It is remarkably productive. Often yielding from 50 to 75 bushels from an acre. Mr. B. counted one hundred and ninety grains from one stalk.

This kind of wheat is said to derive its name from the fact that a very few grains of it were found in the crop of a wild goose that was shot a few years since near the head of Lake Champlain. The wheat was noticed to be of a peculiar quality, was sown, and from those few grains have come all that we now have in the country.

Buffalo Com.

From the Mississippi Farmer. THE ART OF CURING BACON.

Messrs. Editors; -It is conceded by all, that the people of E-seen Virginia excell all others in the art of curing bacon, and this reputation is strictly founded upon truth. And vet there is no good reason why it should be so, for I made as good bacon here last year as I ever made in old Virginia. The people of Kentucky, Ohio and Tennessee do not make it as well, nor ever will, until they adopt the Virginia method, and every part of that method; for, to dispense with any one of the requirements, although some appear frivolous to the inexperesults of his experience, I have no doubt rienced, will prove certainly fatal to your the attention of many of our citizens would bacon, if intended for the palate of a conmoisseur. As the bacon making season is near at hand, I propose to furnish your reathe yam potato in the same manner (with ders with the most approved method as corn) spoken of; and it doubtless would practised in the Tuckahoe region of that re-

In the first place then, let your hogs be well fed on corn; for it is impossible to make good baron out of lean or mast meat. It is very desirable that your hogs be

country. The yield has been known to be upwards of eight hundred bushels to the when you kill, it will be prudent in this click therefore, and two hundred is as low as the most indifferent soil and cultivation are said to the open air the whole night succeeding to as late a period in the spring as may be of the ordinary food required to sustain life. way destroin the of live of a visit of which is the board on contrast, the firm wheat

ing chilled to the marrow.

You can have nothing better to salt your meat down in than troughs made of the largest pine trees. Hogsheads answer very Besides their use as human food, carrots well, but barrels do not answer at all, as it is impossible to pack whole joints away in them without leaving large vacant spaces. which will prevent the brine from rising over the meat : a thing that is absolutely essential in this climate.

Your trough should be placed upon a perfect level, which can be done readily be pouring a gallon of water into it, and then wedging up the lowest end until the water is dispersed over the whole bottom.

As soon as your meat is cut out, (which very owner of hogs must be presumed to know how to do,) have two heaping tenspoons full of pulverized salt petre rubbed upon the fleshy side of each joint, and one tea-spoon fall upon every neck-chine and

Then rub your meat well with salt, (Turk's Islan | pretty well beaten, or pulve. rized, is the kind I use,) beginning with the hams. These should be placed in the bottom of the trough, as closely fitted into each other as possible, (and they may be made to do it perfectly.) with the fleshy sides up. When you shall hus have c vered the whole bottom of the trough with hams, sprinkle a plenty of salt over them. Do not be afraid of using too much salt. The meat can only whatever remains can be used for salting pork is the rule in Virginia, but I think it prudent to use more than that in this lati tude. You will thus put in course after course of hams until the trough (or hogshead) be one-third filled ;-then appropriate another third of the trough to shoulders, and the remaining third to middlings, chines and jowls. These can be filled up a foot above the edges of the trough. The skulls and other bloody parts should be salted sepa-

If the weather should prove favorable, your meat will, in the course of a week, settle down very considerably, and the brine formed by it will rise above the highest course of join's. I think you need entertain gypsom -- that flux cannot be raised on the food for hogs above referred to, are fall no fears for its safety after this happens. same ground oftener than once in six or and winter fruits. Unless they are gathered Should the weather become very warm, eight years, with advantage. These facts and preserved, we will still be without a however, fifteen days after the salting, it are explained upon the ground that, in anacheap food during the spring and summer. will be prudent to see that no flies are about lizing wheat, it is found to contain lime; To supply this gap, I must confess I know it; and even to displace some of the mid- clover, on analysis, has yielded gypsum at dlings so as to enable you to see one of the the rate of four bushels to the sare-and shoulders. Should this, and the brine prove pretty cold to the hand, and the joint appear to be attaining considerable firmness, disturb it no further. But, on the contrary, should the brine be warm and the joint spongy, your meat will be in great danger. It will then have to be spread out and the bone extracted. With good management, however, I believe this state of things will hardly every come to pass.

At the expiration of three weeks, all the middlings and smalter pieces may be strung and hung up in your smoke house; and at the expiration of four weeks the joints may be taken out and strung. Splits of white oak make the best strings for this purpose that I have ever seen tried. After this is done, let each joint be very well rubbed If ploughed and cropped occasionally with with the ashes of hickory wood, and then roots, these inconveniences are obviated; hung up carefully with as much of the ashes | the soil is broke and pulverized, and renadnering to the joint as possible.

It is very desirable that your smoke house be both large and high; otherwise, e heat of the fire may raise the temperature to such a degree as to injure your meat very seriously. I have frequently known bacon to be effected in this way. If your smoke house be built of logs, let it be perfectly well chinked and daubed with clay, and the roof be rendered as tight as convenient; otherwise the smoke will escape too

Have a hole dug in the centre of your smoke house 18 inches deep by three feet square, in the bottom of which the smoke must be made; and upon the joists, immediately over this hole, should be placed a platform, 5 or 6 feet square composed of slabs. The object of this is to prevent the heat of the fire from affecting the meat immediately above it.

Hickory wood chips is the best material o smoke with ; a peck to a half bushel being sufficient for a day. These chips should be renderred very damp in order to prevent their burning too freely. A smoke is made by placing two chunks in the bottom of the hole, with their fire ends lapped ogether, the chips poured over them, and ine whole covered three, or four inches deep with damp saw-dust. This last is absolutely necessary to prevent the fire from burning too freely. Indeed I consider saw lust (any kind will do) so essential in this process, that I would send 50 miles for it rather than attempt to make bacon without it.

The smoke should be kept up throughout the day, but be permitted to go out at night, last the temperature of the house be too much raised.

At the expiration of two weeks the jowls and chipes must be taken down and put into barrels, or something else, as they would be injured by being exposed longer to the smoke. One of them will then be found to make a very excellent and convenient dish, especially if boiled with turnip-tops.

At the expiration of three weeks the middlings must be taken down and secured in like manner from the further influence of

The state of the s

safety from the depredations of the skipper

Whenever your joints may be considered as sufficiently smoked they must be taken down and packed in hogsheads, barrels, &c. with the ashes of hickory wood ; - the method of packing to be very much the same as in the salting process : except that, as the packing in ashes is designed in part to protect the meat from the ravages of skippers, bugs, &c. a more liberal use of the ashes must be resorted to than of the salt. Let the layers of meat be well separated by the ashes (say half an inch at least, but as much more as you please,) and all the space not occupied by the meat should be occupied by the ashes: the topmost joint being covered at least two inches deep. Such bacon will keep as long as you desire.

Yours, respectfully, THOS. S. DABNEY. Hinds County, 8th Dec. 1839.

* With regard to these destructive insects, is thought by many that a free use of the pods of red pepper, in the smoking process, will greatly retard their operations, if not expel them from a smoke house. It is worthy of trial, but I do not give it as the result of my experience.

EXTRACTS FROM JUDGE BUEL'S ADDRESS. Before the Farmers' and Mechanics So iety, of New-London County.

The alternating system of husbandry has not obtained among us that consideration which its importance demands. It is well known that ordinary lands will not bear a succession of the same crops without a successive diminution of product: and that if grain, grass, and roots, are alternated or succeed each other, the decrease of fertility is much less apparent. This is ascribed to the well authenticated fact, that different plants exhaust different fertilizing properties of the soil, or, in other words, that each species, requires a specific food, which other species do not take up. It is now generally conceeded that wheat will not do well in a soil which has no lime in its composition-that clover and lucerne require the supposition is, that a crop of flax exhausts the soil of some property essential to its perfection, which it takes time to restore. The crops can derive these supplies from no other source than the soil; and if the supplies are not there, the crop will be eith-

er deficient or defective. There is still another reason to offer for alternating crops. The soil if in grass, becomes annually more hard and compact; the roots are consequently restricted in their range for food; the heat and atmosphere become partially excluded, and the decomposition of vegetable food is arrested. The consequence is that the finer grass gradually disappears, or runs out, as it is termed, and the grass crop gradually diminishes. dered pervious to solar and atmospheric influence, and the vegetable food which it contains is thereby rendered solvable; and if manure is giving to the tillage crops, as it should and can be once during the course. the soil will become renovated and fitted again to receive the grass seeds, with the prospect of a greatly increased burthen of

The grasses are, however, not the only system of crops that are improved by the alternating system of husbandry. tillage crops, in turn, are alike bennefitted, not only from the advantages of change, which I have endeavored to point out, but from the vegitable matters of the sward, which, instead of remaining in a measure dormant and useless, are decomposed and become the active food of the crop; while the root crops by their pulverizing influence upon the soil, improve it mechanically and chemically, for both grain and grass.

As a general remark, it may be said, that abor and capital can be expended in no way more profitably by the farmer, than by enriching his lands. God has given to us all the elements of fertility, of plenty, and happiness. He has given to man the cu. pacity of appropriating them to his own use. He has commanded him to exercise these capacities with diligence; and, although he has not promised, he seldom fails to bestow upon those who honestly keep the command, the highest rewards in temporal happiness.

The great secret of success in agriculture, consists in adapting our creps to our soils, in fitting the soil for the reception, in feeding hem well, and in giving them proper culture; and the great obstacles to improvement are, ignorance of the principles or science of a riculture, a blind adherence to old practices, and a parsimony in expenditure. We better understand the economical management of animals than we do of plants. We know that we cant make fat beef, or pork, or mutton profitably, without we feed high. It requires a certain amount of food to keep an animal in good condition —all beyond this which the beast can consume digest, and assimilate, is virtually converted into flesh. Now, it makes a vast With regard to the joints, it is very diffi- difference whether this extra food is con.