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## Extreme Fatncss aud Health.

Tue coadition of the animals lately exinibit ei at the different fat cathe shows, and expecially at the shore at Islington, p.ore 1 unguestionably that the sgstem of feeding has lately undergone a very material change. With the execption of the pira, it eould not be said that the animuls wore fat thany excesa. although it is certaing a question whether, even now, there is not more than there ought to be having regard to the liealh of the animals them celres, athl of the quality of the flesh, as to its fitness for human foud. A proper admixture of iry and succulent fodder tends to bring up the flesh and fat erenly distributed throughout the carcase. Oil-cakes and other artificial foods are giren to stimulate the appetite, and, so far, the business is condacted secundum artem. But, is the animal thus fattencel in a lealthy condition, and is the flesh really fit for the table? This brings us to the point.
The question of fat in the human subject has lately been made the basis of much discussion and controrersy. In this case, howerer, the object was not to lay on fat indeflitely, but just the reverse, to rid the unhappy victim of olesity from bis unhealthy superfluity; the process in this case consigto not so much in the reduction of the quantity as in the matter ot the quality Withont going rery deeply into the medical treatment, it will be enough to state that the two articles which cuiedy go to the production of fat are sugar and starch, and in fact both may be ultimately resolved into the one article of sugar. In all cases where fat has abounded, it has been found that the abstinence from saceharine matters generally will bring about by degrees a reduction of the fatty tissucs. Now it has been discorered that the liver of all animals secretes sugar, which in proper proportion supplies the raste of the system; but if those substances are introduced which tind to increase the secretion of sacciarine matter, the excess thus eagendered is distributed orer the system as fat, whilst during the process the organ itself undergoes a change, and from being in a healthy condition becomes ealarged, and then performs its functions irregular:y; the whole system thus becomes vitiated, and a lialility to disease of all kinds is engendered. Sow this condition is analogous in the human and the animal subject ; and it fill be found that as the cecretion of sugar increases, the whole systern is iisble to disorganization, and the tissues of the body are necessarily brought into an abnormal state Tuling then this starting point, we may fairly ask, can it be considered that animals thus treated and brought into a proternatural fatty state are really fit fuod for the population-assuming, as is almost necessarily the case, that the liver is thus in an unhealthy state, and that the tissues generally are unhealthy too?' The whole question is thus brought to a very narrow issuc. If the system of fattening produces as a necessary consequenco disease, ought it to be continued? Is it right year after year to l, ring torether, for the admiration of the public, animals proved from the premises above deduced to be in an unhealthy state, when a very slight relaxation from the ordinary rules of judging, by giving the prizes only to animals in a healthy condition, rould do away with the whole evil? We may for a time shut our eyes to these facts, but the truth must at last prevail, and sooner or later a change must come over the entire system of shows of fat cattle. When it becomes more generally understood under what conditions necessarily the animals are brought into this state of olvesity -when it is known that fat in excess is only a form of discase by bringing an important intercal organ of the anima! into undue activity, and thus stimalating the production of an unhealiby secretion, it is casy to forcsece that a revolution must in time be effected, which will materially affect the whole process of foeding animals throughout the country.
We have assumed here that sugar is the basis of fat. Now, this fact, which is an important considerntion in the fatting of animals, ought to have its Freight in measuring the food to be administered. In the catalogue of the late show at Islington, treacle
hitherto as having lreen used for food. Now, if these sulsstances are essentially fat-producing, tho procese of adding a litfle fat to an animal a short time pre viously as a preparation for the ohamblea, might easily le dono by this addition to the feeding atock, and with this adrantage-that the amount could alnost bo regulated, and all done, too, on the cheapest scale possible. A capk of treacle or molesses would be a very cheap subntitute for oll-cake and artificial fooils, and the animal could be brought to market in just tho fit tate for human food. This pnint may, perhaps, be worth the attention of the arriculturist, more especially at this time when the production of meat is admitted to be proftable, while the failure of green fooll makes the keep of an ani mal a very scrious matter. The wholo argament it based upon a simple fact, which can at any time
and casily, be brought to a practical test-Fied.

## A Good Lot of Pign

Ens. Cu. Gent,-I noticed in your paper of Jan. 5, an account of two pigs, $7 \frac{1}{2}$ months of age, that weigh ed 040 lbs . We hare just dresed seven pigs, all of one litter, just four months and one week old, that weigbed i89 lbs. nett-an average of 112 corth lbe. They were weaned at two montlis of age, and then slopped with house-slops, cooked pumplins, and shorts, until corn gathering, when they had the wot corn until two weeks before they were dreswed, when they hal sound corn on the cols. They have not had to exceed 20 bushels of corn altogether. It is not a brag operation, but we like to let our New Eagland friends know that we are not asleep when wo read the Country Gentleman.
Richmond, Ind. CLIARLES G. CARPENTER.

Great Deposit of Fat in an Ox.-A four year-old ox of the Shorthorn breed, slanghtered at Wooler the other day by the Measra. Rutherford, of that place, by whom also it was fed, thouth only weighing 74 stones, contained no less than 131 lb . of fat.
To Prevext Cattle frox Jexpuxg.-"A Soldier Boy" writes to as that he has always succeeded in breaking cattle of the habit of jnmping, by piercing the ears of the unruly animals, and tying them over
the head, with a piece of twine or ribbon. The philosophy of this is that an animal olwass droops ita ears when about to jump. When thus tied, this cannot be done, and the idea is abandoned. - Prairic Farmer.
A Prize ex.-Last week we noticed the fact of a fat ox being slaughtcred in Elgin, the weight of which was 144 cwt , and 240 lbs , of tallow. This is, however, completely cast into the shade by the weight of the prize ox at Forres. The animal was shown by Yr. Harris, and purchased by Nessrt. Harrold \& Ross, fleshers, Forres. The carcass of the monster weighed 1890 lbs., or 135 atones at 14 lbs. the stone, to which must adided 264 lbs . of tallow: Fhich, added to the weight of the beef, makes 2154 lise. avoirdupois, or about 153 stones. What the weight of the hide, horns, hoofs, de., may have been we cannot say, but we well remember the time when an ox of 100 stone was $a$ perfect wonder, and as auch was dressed out in ribbons, with a piper on his back, to play through the atreets before the ox went to the shambles. Is it not possible that oxen as large as elephants may Jet be seen in the north of Scotland? - Eigin (Scolland) Courant.

Winter Food for Stocr.-The following are a number of different plans:-(1), 4 lb . of bean straw, 12 ll . of oat straw, 3 lb . of bran, 4 lb . of rape-cake, and 40 lb . of swedes ( Mr . Horsfall); (2), 2 Jb . of crushed linseed boiled in three gallons of water, 5 lb . of ground corn, 10 lb . of straw chaff, 80 lb . of yellow bullock turnips, with a little wheat straw (Mr. Marshall); (3), I stone of linseed cake, 140 lb . turnips ; (4), eightpence worth of linseed and ground corn, 70 lb . of Turnips (Mr. Hintton); (5), 1 ll lb . of linseed, 5 lb . of bran meal, with turnips; (G), 5 Ib . of oil-cake and 3 lb . of bean meal, with 40 ib . more turnips than in No. 5 ; (7), 40 lb . of steamed potatoes, 4 lb . of ground corn, 6 lb . of cut straw (Mir. Marmall) ; (8),
12
2 $1 \frac{1}{}$ to 2 cwt. of turnips and straw ( 0.8 .1 ) ; (9), (ib. of oil-cake, 2 lb . of barley meal, and 100 lb . of
turnips (IIariness); ( 10 ) 4 lb . of linseed and bean or barley meal cooked, with three feeds of turnips (about 40 lb . cach), atraw ad lib.; (11), straw ad lib.,


Wux Scalded Meal my more Netritiocs than Raw. -The nutriment afforded to animale by seeds and roots, dependin upon the supture of all the globules which conntitute their meal or dour. These globulen vary in diferent roots, tubers and seeds. Those of potato atarcis for instance, are nyaully from fifteen ten thoumandth, to the four thoumandth part of an inch ; thowe of wheat rarely exceed the two thousandth part of an inch, and wo on. From experiments made on thene slobules by $\mathbf{I}$. Rappail, the author of "Organic Chemistry," and M. Biot, of the French Academy of Sciences, the following conclusions liare been drawn:

1. That the globries conntituting meal, gour and starch, whether contained in grain or roots, are incapable of afforifas any souriahment as animal food, until they are broken.
2. That po mechanical mathod of breaking or griading, in more than partially efcient.
lobules the mont dicient means of breakic the globules in by beat, by fermonta
cal agency of acid or alkalice.
3. That the dextriae, which ia the kernel, asit were, of each globule, is alone noluble, and therefore alone nutritive.
4. That the thells of the globulen, when reduced to fragrentic by mechation or heat, ate inooluble, and therefore not nutritive.
5. That thougte the fregmenta of them stbolis are not nutritive, ther are indimpemable to dicention, either from their dlatending the stornach, of from some other cause not understood; it having beea forind by experiment, that concentrated nourimhent, euch os sugar, or emence of bed, cannot lons gustain lifo, Without some mirture of cotreer or lem nutitive food. 7. That the economical preparation of all food, comtuining globules or focula, conatita in perfectly breaking the ahells, and rendering the dextrine contained In them, wolable and dientible, while tho fragmenta of the abells are, at the mame, time rendered more bulky, so as the n-
Kass. Ploughman.

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## Mr. Oowan and the Cheviots.

## To the Entitor of Tay Canada Fargern:

San, - At the Convention beld at Hamilion on the 2nth December last, J. Cowan, Eeq., M.P.P. for Wuterloo, made a daahing apeech against the Cbeviot breed of aheep, without giving any cogent remon for his dir like of them. This was the more strange an he is the father of that clams of wheep in this conntry. Nevertheless, he now says they will not anawer thin climate. To this I will just say, either Mr. Cowan is a fanciful judge, or utterly ignorant of Cheviot ibeep. I mitght remind him of the fact, that I had the pleamare of judging, along with him, at Beverly Townaip Show. In the shearling ewe clam, a pair of puro-blooded Lelicester ewre, bought from Mr. Cowan, and ahown by an exhibitor, and a pair of Cbeviota, competed with one another. Without heaitation, the Cheviots were awanded the first-prize, and the Delceaters the mocond, showIng Mr. Cowra's opinion then of the "abaurd patronage of the breed of Cheviot sheep, Which are uiterly ageless for this climate." Take Mr. Cowan to witueas,
sixty sheep out of every hundred standing without sixty sheep out of every hundred standing without
either abed or shelter, and with food of the pooreat kind, which is too orten the cave all over Camada, the Cheviots can atand such keep better than any others can. I imported at Inst Iciceutera, but found they did not pay so well an the Cheviots on ordinary keep, either in wool or lambe, which induced me to profer the Cheviots $;$ and until' I ind a better breed, I ahall continue to do mo. I would rather take in hand to keep IVe Cheviots, thinn I would three of the larger breed on the mame amonnt of food, and they would produce a greater profit, barring fancy prices. I hope to see, belore long, that the Provincial Board will find the necensity of providing a clans of abeep to prove the beat firt cross from a pure breed on the one side and exhibit the same at the Provincial Show, that everyone may be able to judge for himsell.
I read in an old conntry paper last summer, of a lot of iambe just weaped being seant to feed in winter for the fat market, that realised thifty-eight shillinge, or nine dollars and shalf each. Tho lamber were a woe botween a Cheviot ewr and Leicceter ram. Inis ahow fat marketi
GEMrion P.O.

