## EASY METHUD OF MANJGING BEES.

## (Contonued from page 59.)

ean get into one of the drawers, they will begin to make comb there, (fur they hiways commente at the :op and work down, of colrse they will rase young bees and deposit bread mo the dravers I' the snarm is so large as to be unable to nork in tho drawer, there is no dunger of teting them in; and yet, if the swarm is very large, there may be danger, if tho bees are prevented from entering tho drawer, becsuso thry sometmes go off for want of roomin the lower apaitment. Itherefore recommend letung the bees unto the drawers ut the time of hiving them, in all cases, exerpt when the swarma are small-then, the iule should br atrictly adhered to: notwhitsianding I have hived bundreds of awarms for seventeen jears last past, and have not lost a single swiarm by hight to the woods, yet I hear of some loases of thes kind, which rander these remarks necessary My practico in fiving is, to gat the bees ino the rhate hive them as soon as posvible, hang on the butam board, faten the same forward by means of the bution so as to prevent the escape of any of the bues except through the mouth of the bave, place the samo immedrately where I intend it to statid through the seasun. Lei the bottom board douts three eights of an inch on the third day after awarming, and turn the drawers four daysatter hiving, (unleas they are turned at hiving )

Occurrences have been henrd of where there would seem to have been vanations from tho fureging rules concerning swarming, to wit: Bees have been known to awarm before the bave is full of bees or comb, and then, swarm agatn two or hree diysafter. Now, there is reason to believe thet the old stock lost their Queen before swarming, and the bees assumed the condition of a have that had once swarmed, and sent forth another to avoid the condict of the Queens. Very large colonies have been knowa to swarm out several bushels of bees under such circumstances Variatione from the common rules of mating Queens. more frequently occur as fullows, to wit: When the old Queen goes uut with a swarm, she leaves without providing more than one class of grules, (larba,) which are capable of teing converted to Quaeny; and as the bees always make a plurality of them, they will all bo of an age; and in the confation of ewarming, ell that are hatched will anlly out, and the hiva teft deotitute of the menas of repariog their losa. 1 his accounts fur seemg more than one Queen in sume amall swarms, or there may be more than one class of grabs in the hive after first swarnung, and the bees mahe sume Queena from each class. Then more than one Qusen may be een with a swarm; for all the Queens loave, chat are hatched. The suarming season usually cluses in about seventeen days after Ite commencement, and the bees seem to prossessu peculiat instinct in their nature, which teaches them that the teason is too far advanced at this time for them to form new colonies with sulety; and they will not permit any of thoir Qreens to depart. I have observed in repeated instaticen, very compact bunches of bees on tise buttum board, some larger than a hen's egg, about the hour of awarming. On examining them, by sepa rating of tho bees in my hand, I always found the Quean in the centre, unturt, jet nearly smothered The bees will commit no vilence upon her peraon, other then pila on, and cluster around her in suah - manner ais to exclude from her all the vital air, and abe dies of suffucation.

Mcrrain.-John Grant, in a communication to the Mark Lane Express, gives the following an 'an almeet infalhble' cure for Murrain, if applied on the first appearance of the disease:-


Discolve the whole in half a gallon of table beer, with half a pound of wofi sugar added, and give 4 a drench; the good effects of which may be viaible in twenty-four huurs; after which, let ahe ack cattle be put in a field where there is plenty ed Yater, at a denire to dink is one of the firct nymp.
toma of eonvaleacence.

## (From the Farmers' Cabinet) FOOD FUR CATTIE.

At this time, when the correct principles of farming and feeding, as ascertamed by chemical analy ats, uite a sulyject of general miquiry, I have thourthe the tullow wing articte on "Foud fur Cnute" would be interesting to the readers of the Cubinet It uppeats to me that a far greater value has been athached to swme esculents containing a very large porion of water, auch as turmps, bee's, cartuta, potatoss, \&e, than they deaerve; whist uthert in which tho proportions of organc matter ate very gieat, nuch as peas, brans, oats, barlay. wheat bran, de, have been too much neglected. It is quito contraty to the recelved opimon, that 100 iba of the shin of whent,-hran-is as vaiu able fur catilo food, ay 100 lbs . of almust ans uttiele that can begiven to them. Bet tha neat uecount for the ubarvarion that we liavo often heard made, that "millors' horses and hogs are thusy fat," us they ate generally fed liberally on wheat oltal.

J L.

## Milverton, First mo., 124, 1844.

Extracted from Dr. Mlayfuir', Lecture, dolivered to the mimbers of the I ,yal Ag riculural Sucaty, it December last.
The food of cattle is of two kinds, az sized and unazonized-wath and wuhout natrogen. Tha fullowing sable gives the acalysis of various hinds of food of cattle in their fresh sinte :-

Oiganic

|  |  | Werer. | maters. | Axhes |
| :---: | :---: | :---: | :---: | :---: |
| 100:bs. | Peas, | 16 | $30 \frac{1}{2}$ | 37 |
| * | Beans, | 14 | $82 \frac{1}{3}$ | 312 |
| " | Lentils, | 16 | $8{ }^{3}$ | 3 |
| " | Oats, | 18 | . 79 | 3 |
| ${ }^{6}$ | Oit-meal, | 9 | 69 | 2 |
| $\because$ | Barley-meal, | 153 | $8: 3$ | 2 |
| " | Hay, | 16 | 76 | 7 |
| ${ }^{\prime \prime}$ | Wheat-stram, | 18 | 70 | 3 |
| " | Turnips, | 89 | 10 | 1 |
| " | Sweeden, | 85 | 14 | , |
| ${ }^{\prime \prime}$ | Mangold-wurtzel | el, 89 | 10 | , |
| ${ }^{\prime \prime}$ | White carrot, | 87 | 12 | , |
| " | Poia ves, | 72 | 27 | 1 |
| " | Rud Beat, | 79 | 10 | 1 |
| " | Linseed cake, | 14 | 753 | 71 |
| " | Bran, | 143 | 81 | 5 |

Aglancent this table wouh enable a person to estimate the valuo of the arucles as dift. Thus every 100 tons of turnips contamed 90 tons of water. But the valve of inorganic and organic matters which thase fwods contained, differed. Thus Mr Kham states, that 100 lbs of hay were equal to 339 lbs . of mangold-wurizel It would be seen that that quantity of hay contained 76 los. of oigame matier, whilat the manguld-wurizel contained only 34 lbs.
One reault on feeding animals on foods concaining much water at, that the water abstracis frum the anmal a large quanuy of heat, for the purpose of bninging it up to the temperature of tho body, and in this way a loas of material took place. The mode proposed by Su Humphrey Davy, to ascertan the nutruve properates of plants, by mectamicalty separaung the giuten, is unsusceptible of accuracy. The inore accurate way 18, to ascertam the quanuty of nutrogen, which boing muluphed by 62 , will give the yjuntity of aloumen contained in any given spacimen of food.
The following table showe the equivalent value of everal kinds of food, with referenco to the formation of muscle and fat, the albumen indiceung the muscle-forming principle:-

Unazotized

| 100\%3. |  | Albumen. 25 |
| :---: | :---: | :---: |
| 1.4 | Blood, | 20 |
| 4 | Pexs, | 22 |
| " | Beans, | 31 |
| " | Lentuls, | 33 |
| " | Potatoct, | $\underline{2}$ |
| " | Ouss, | $10 \pm$ |
| " | Barley-meal, | 14 |
| " | Hay, | 8 |
| " | Turnips, | 1 |
| " | Carrola, | 2 |
| " | Red beet, | 13 |

Tho analsis so this cable are partly the
of Dr. Playfair's, and Boussingault'd analysio. The albumen zeries indicates the flabh-forming principles, and the unazotized series indicates the fat-forming principles. By comparing this tabio with tho furmer, it will be at once seen which fooda contain not only the greatest quantity of organic matter, but what proportion of this organic mat. ter is nutrative, and which is fattening or that which furoshes 'mbustible material. In cold weather, those foods should be given which contuin the largor proportion of unszotied manters, In order to sustam the heat of the gody. Thus it will be seen, thaik potatoes are good for fattening, but bad for finthening. Linseed cake contains: great deal of fattening matter, and but latile nutritwe mater; hence barley-meal, which contains a good deal of albumen, may bo advantageoualy maxd wiltit.
Dumus. a French chemist, states that the principles of fat exist in vegetables, as in hay and maize; and that, like albuman, it ia depoalited in tho tassues unchanged. But Leitig regards fat an tran-formed nugar, starch, gum, \&ec., which hat andergune a clisuge in the process of digestion. this is why hinsecd cake is fattening; all the onl is agrea zed out of the seed, but the aeed coat-which contans a great deal of gum and the starch of the gecd-is left, and these are fattening principlet.

The cx:gen, introduced by respiration into the lungs, is destined for the destruction of carbonacenus mater; but there is a provision made for iaking it into the stomach with the food, and this is done by the aliva. The saliva is alwaya full of hubbles, which are air bubbles, and cariy the oxygen of the atmosphere into the stomach with the food. The object of remination in animals is the more pelfect mixing of the food with the "xsgen of the atr. 'This is why chaff should not be cut so shert for ruminating, as for mon-ruminaung mimals, as the shorter the chaff is, the leas it is ruminated, and tho less oxjgon it gets.Mark Laso Expiess.

## GOOD EFFECTS OF DRAINING.

At the lute annual meeting of the Liverpool Agricultural Socioty, the presidont, Lord Sanley, said that he would state one instance of the practical returns which might be expected from thorough scientifie draining.

In 1841. his father was about to enclose in the park of Knowsly, a tract of about 80 acres. Of this about 20 acrea were sttong clay land, with very retentive subsoll, and the remaining 60 he remembered from his boyhoorl, as the favoured haunt of snipes and wild-ducks, and never saw there any thing else. In the course of the firat year, the 60 acres maintained-but very poorlyduring the aummer, six horses; and on the 20 acres ihere was a very amall crop of very poor hay. It was impossible for land to be in a poorer condition; and in breaking it up they had somatwo or three cumes to dig the plough-hornes out of the bog.
In 1342, the whole of this land was thoroughly subsoilded and drained, and in 1842, what war not worth 10s. an acre per annum, the yoar before, was in turnips, and on that land they fed off, in five manaths, and fattened for the butcher, 90 beaste and 300 alirep, and afterwarda carted inso the farm yard 350 tons of turnips. In the present year they had a very fuir crop of barloy and oats, which his friend, Mr. Henry, would be very gled to shom to any genteman who felt any curiosity on the subject. Now he did not besitate to nay that that land was, at that moment, worth 50 s . an acre. The outlay upon it for pulling up old fences, thoroughly dramang, tilling, and breahing it up, amounted just to 57 10\% per acte, giving junt YOs. For overy 150 s . If outhy, and giving to the landlord a permenens interest of 14 per cent. on the money laid out on that unpromining ground. It happened that in the same yesr they took into their own hands land uhich had been abandoned hy tho tenant as peifectly worthiess. It wat a Inrge field of 22 asires of very poor andy seil. It was diainedat an expense of $£ 2$ per stath.ascie. and in the fist year they fed oft on that land 190 sheep, the remainang purt of the turnips beirg caried to the farm sard; and he ventured to say. diat at tie expense of fi per acre, the land now increased in value 10. per nere to tho landlord,

