## FATTENINQ YOWLS.

From a lotter in the Live Stock Jowrnal, giving accounts of methods of fattening poultry in Europe, we take the following extracts:
In France two principal methods of fattening are employed, viz: with aolid or semi-fluid food; the latter being now preferred, at least for finiahing off with. In either system, as carried on by the best feeders, each bird is penned in a compartment narrow enough to keep it from turning round, and the bottom of which in of open bars, to allow of all offonsive matter falling through. It in alno necessary to keep together fowls at the same stage of fattening, and not to have fowls of different sexea near each other; for though they may only hear each other's voices, it is found to retard fattening. Under the coops it is usual to have a floor of dry earth, which is frequently raked clean.
Madame Sillet Robinet (it is remarkable how mach is done by women in this business is France), ntates that the best food for solid cramming is buok wheat flour mixed with sweet milk into a dough. This is rolled the size of a finger, and out into pellets two isches and a half long. Barley or oatmeal are not found so good, and my own opinion is that much of the tranaparunt whiteness of French poultry is due rather to the use of buckwheat than any peculiarity of race. In cramming, the operator dips each pellet in water before adminintering it, and pushes it down with the end of the finger. At firat only two or three pelleta are given, but this is rapidly increased to 12 or 13 . But here is an important point in all cramming of poultry. The birds must of course be in perfect health, first, or they will only get ill with the confinement. They ahould then be faited some hours before any food is given at all, so as to take their firat meal with a good appetite, which is kept up by the first acanty rations. Alter that the crop is felt at ench meal. If any is left, a meal must be minsed, and less given next time: for one atom too mneh retards the process seriounly, or may make the bird "go off altogether. Two meals per day are given is this method, 12 hours apart; and the time, again, must be exactly kept, for if either fed before or after, the fowl suffers by fretting or indigestion. It is chiedy in these apparently amall detaits Eng. lish operators fail. The process is sotuplete in is to 25 days; occasionally it can be carried on for 30 but when the desired point is ence reached, the fowl goes back and rapidly detersorates, or may even die, consequently, it requires good judgment to proserve every advantage.
Semi-fluid food is mixed about as thiek as very thick arrowroot. Mr. Laeque says that barley meal with the bran sifted out will answerfor this, and it is mised with equal parts of milk and water. If more milk is used, the fowls tarn siek in a fow daya. Some breeden add a little maire meal and a portion of lard; others, again, employ a portion of rioe meal. The original method of giving this food was to place a tin funsel down the bini's throat, into which the food was poured from a apoon; but large feeders now employ machines, which hold the pap in a large cylinder, and foree it out through s flexible tabe by the pressure of a piston. Fowls crammed with semi-liquid food are fed three times a day, of every eight hours, such food being more quickly digested. The proeess is aleo quicker than the other, few fowla requiring over 90 days. Cleasliness and quiet are of the utmont imporiance: bat above all stande that constant watch on the state of the binde already alladed to. The fowle rarely otruggle after the first two or three meals, but on the oontrary, look ont eagerly for their feeder. In Bamex, where fattening is carried on to perhaps its greatend perfection as reganle Englaod, the ehickess are generally meared en white aats groasd fise, and sold is good oondition to fattere. By these latter they are moetly finished of with the same food mixed with milk ints a thick gruel, and daring the last weela
oaly, nariched with a littie tinely chopped mutton muet. As a rule they are only fed twien a day, and when not crammed ly machine, thia food is given in clean troughs. The mont sue. cenaful feeders, Mr. F. Crook onice told mie, prefer sheds, the walle of which are made of faggots or thick brushwood, which keep off the draft, bat give abundance of freth air.

It cannot be too often repeated, however, that the susoess of French feeders chivly depends on constant observation and careful adjustunent of the food to what the bird at ita atage then will bear. A pellet or a apoonfo! too minch at onoe impairs digeative power; while too little, though not so injurious, loses time. All this supposen a certain amount of "natural gift," keen observation, and long experience, and it has been perfected in France by generations of practioe.

## THE AUSTRIAN SYSTEM OF MILLINE.

## (From Phok. Kice'n new work on Milling.)

High milling-or, as it is also called, Vienna, Austrian, Hungarian, Prague, or Saxony mill. ing-is that method of grinding wheat which, by a gradual reduction of the grains of wheat, aims at producing the largest quantity of mid. dlings, which, being cleaned, reground, and again cleaned, ete., and eonnequently gradually reduced, is finally manufactured into flour. This syatem of grialing, which originated in Vienna, producen the moat beantiful and the whiteat, and generally the finest kinds of flour, is proportionately larger quantities. In the Aurtrian syatem of grinding, the stones are placed at such a distance from each other that the first time the grain passes through them it is only alightly rubbed and broken. In this operation the beard and parta of the cuticle would be rubbed off, if this wan net done before by the hulling machine. This operation is called ending, (8pitzen), or, in case the stones grind more coarsely (Hochschroten), inasmach as in this coare grinding the grain is broken aleng the eatire length of the furrows, so that the prodace therefrom is mixed with flour, branny particles, and germ that have been scraped off. The jroducts are separated by sieves, and the result is dark flour, poor bran, and coarne mid dlinge. The latter jrodaot is passed through stones placed more closely together, and is mub. jected to the fint grinding, that is to say, it is further hroken, and we obtain partieles varying in size, flour, dunat ( $\mathbf{w h i c h}$ is analogous to flour), middlings, and a atill eoserser commofity oalled relhrot. After this product has paanod through the sieves, the different sorts are grailed accurd. ing to their aize, conserpently all those bransy particles, which are of equal fiaeness with the flour mingle with the flour, and those of the same nine on the porcalled funst, with the dund, etc. It is scarcoly poseible to separate from the flour the equally fine branny partieles; this is done, however, as far as the middling: and dunst are coneerned, by meane of mildlinge purifiers.

The question now is, of which parts of the grain of wheat does the several produets con. wist ! The flour obtained froth the first grind. ing (Sehroten) will be better, in other words. will contais fewer branny particles than that obtaised by the operation Aochechroten above deseribed, but it will meveriheless contaia a great number, speing that the atope exerives a bresking astion upon the grais, and mere or lese reduces the cutiele.
Dusat and fien middlings are motlly compined of amall fragmenta of the flour subataness, and in the process of breaking fall frow the inher as well as frum the inwermost part of the grais, and become pollated by the admixtare of linasse particles of equal finesess. If these are rnieoved 5 the middlinge parifier we obtais pare mid ding, which is cossequenee of lving derived froen the inaermost pari of the grisis, are called cort-mildliags (Kerngriese), of, because they are
uned for making the fincet flours, Ausrugmehte and Ausmgricse
The eoarser middlings (Auflosungen), and the still coarter schrof, are fragmenta whieh, the larger they are, the more certain are they to be overlaid with portions of the layer of gluten, of the akin of the gerin and the grails, and are, consequently, of a mueh darker color than pare middllings, The boarse middlinga and the enarser nchrof are put through the parilying machine, in which they are graiually relueed. If during the jreliminary grimling (Hochechrotes) germis get loosened from the grain, they gok knoekend off enpecially during the tirst grinding, and arrive in proportion to their nise, for the most part uninjured, among the ooarse middivers, to which they impart, by their yellow eolor, a apeokled, yellow appearance. The prodaet of the preliminary grinding is mparated, and the middlings and fther middlinga purified.

It is exveedingly difficult, nay, even impor. sible, to give to non-praetical men anything like a clear idea of the nature and appearance of the varions milling prodnets either by deneription of illustration. The only way in which he eas become acquaisted with them is by seeing them in a well evodueted mill, where high milling is practicenl.

The tirst rough griseling in followed by a gecond, the apoond ly a third, and the thirl hy a fourth, but the number of these is not in all milla alike. We must not imagine, howsver, that in these auceeseive divisions of breaking up of the grain, that in the preliminary grimiling (Hochschroten) the grain is liroken in twe, and by the first grinding (Selireten), it is broken inte four pieces, eta, se the eontrary, the divinion When the stones are rightly placed, is so masic aged that at each sucossaive operation the several parta graclaally loose their pelyhedrous or splucrical shape, and asaime a lamillifurous form, In the first, seoond and thind rough grindiags, the greater part of the grais is consequently re: duoud to four and middlings and the material which andergoen fourth griading has beeome so far iritarnted that ne eoarse middlinge ean be got from it, bat only duat mised with namerous particles of outer hunk. Along with these we obtain flour as well as coarse and fine buska There are acaly partieles vnusisting of glaten, and the nuticle of the germ and the grais, to whieh a percentible numiler of stareh cells ad. hers. Is many mills thise scaly partieles are called atripes, in fact thore remsining after the fourth and fith grinding, while atrijet sud at. ter once more grialing Mach atripes. The fine and ooarse rougha are in many mills ground to gether, is othere apparsiely. The formur kis aleo by the name of /fupuic. Hy ground roughe and ground Haspan, we understand these waly parts, which, by their rwpeated pasage through the stones, are freed from the particles of flour allhering to thans, which serve as fudder for cattle and horsea, and are datieguialied by the general name of liras.

The TERTH.-As the result of numerous trials male by the expossire of peesetly-axtracted teeth to the exposire of various sulatasees, M. Maurel comes io the evedlasian that if variaus mindicias salatances are injorions in thair aetion on the teeth, others is sitll larger aumbers prove, is their habitual employ ment, guite ias: iffensive. This, if we are requirel to tahe grat prevautions respoctiog sitrio aelid, tanais, chloriles of zine and antimefy, perchloride of irvh, salphate of eopper and alum, we may ers. tinne to smplay wilh eomplete safety arciniens and carbolie acils, vilegar, corroaive avilimate, chloringe of potahl, alcobol, tise tine of beszois, esence of mish, tineturs of yuinise and esa du colegge. Tubson, whather used is showing ar anoking, does not ibjore the teeth beyond their dismoloration.

Briv-tuare yeare of age is said to be the grad elianaterie or turn oflife, a eritieal periol (or masenlise humanity, ficity mes dyjng at that age, of near it, thas at any other, lesving acidente and vielent deathe saide. A fike erits. al period for femiaise bumanity is 47 yeans.

