

Agricultural Department.

FEEDING YOUNG CALVES

As we have seen, fresh milk is the best food for the young calf, and the most natural in the of taking it is for the calf to draw it from the adder of its mother. But there are from the adder of its mother. But there are many considerations that come in to prevent this natural method among the occupant dury men of the United States. This natural method is only practicable among the breeders of pure-blooded and high-priced stock, and if such breeder of high blood is located in a carrying district where milk is valuable, it is quite annecessary that he should ford new milk longer than two mouths. After that period the calf may be fed upon the skin milk and annecessary or flatered arnel, with an excellent nusced or flarseed grael, with an excellent hance of growing a prize animal. In two months the calf will have made an excellent start and be ready for the modified diet. And if the calf is to be taught to drink, it is better of the ealf is to be taught to drink, it is better to do this when ten days or two weeks old. It will learn easier at that ago than later, and the row will give more milk through the season than if the ealf is permuted to suck longer. The milk being fed warm from the mother, the ealf will make a growth not porceptibly thiferent from one that sucks. This blooded call should have the free run of a dry yard, with a little hay or 'grass to eat, that it may early develop its first stomach and chew its cud. A small field of grass in summer is still better. When the time comes for feeding skim milk, develop its first stomach and chow its cud. A small field of grass in summer is still better. When the time comes for feeding skim milk, the ration may be made about as nutritions as the new milk by adding it to flax seed gruel, made by holling a pint of flax seed and a pint of under the property of water. Mix this in equal parts with skim milk, and feed blood warmy. Let the call have ut fill twice per day, at regular times, until six months old. During this time teach it to eat a few oats, and in case of a tendency to scour, give, for a meal or two in the milk, a quart of coarse wheat flour, sometimes called by farmers, canel. It will be precived that the oil of the flax seed will make good the loss of the cream in the milk,—in fact it is a ration to rich as milk itself, and we have seen calves raised upon it quite the equal of calves unning with the dam. We have also used flax seed and pea meal to make the grael to mix with the skim milk, and it has proved an excellent combination—Cor National Live Stock Journal

GARDEN FERNERY.

One of the prevailing fashions in the floricultural world of the day is the cultivation of exter forms, either in conservatories or in the dwelling-house, under glass shades or in Wardian cases. This, of course, devolves more or loss care on the owner, unless a gardener is employed for they need constant attendance, a day's neglect in watering them frequently highing all their beauty for the season, and sometimes even destroying them altogether. A taste for these delicate and beautiful plants as sure undex of a grewth in esthetic culture, as their beauty consists entirely in form, without the aid of any meretirious effects produced by color. Unfortunately, it is not every one who can afford to keep a greenhouse, or whose domestic or business arrangements will permit him to devote the necessary time to the care of the plants therein. Yet it is not really necessary to have a greenhouse in order to inforded the in this favour.

of the plants therein. Yet it is not really necessary to have a greenhouse in order to inidulge in this luxury, for there are large numbers of ele ant forns, both untive and exotic, which are quite hardy and can be grown in the open garden and left out all wither. The prevailing idea that all forms must be grown in peat soil and sand, or if grown in the open border, that it must at great trouble and expense be made of such materials, is a fallacy for nearly all bardy forms can be grown in any ordinary soil, from a sandy loan to a stiff clay, provided it is free from animal manure and retentive of mosture. In our own garden, we have a small collection of Japanese und other hardy forms growing in a border of heavy soil at the foot of a bank of earth three or four test high, on the top of which are some shrubs. These cast some shade on the bed below during the hottest part of the day, and the plants flourish and grow luxuriantly, and are admired by all visitors.

flourish and grow luxuriantly, and are admired by all visitors.

Visitors is tracersary to have rockeros constructed for their cultivation, we have never a one in this country that was really estisfactory unless it was supplied with a jet of water similar appliance to keep the soil maint. Being raised above the level of the surrounding soil like a mound, the hot dry sir of our summer months heats the comparatively small stones of which it is composed, and the moisture in the soil is room rapidly

dried out, and if there is one thing more injurious than another to ferns, it is allowing the roots to be one dry. If for the stake of any picturesque effect it is descrable to have a rockey, or to accommodate any species which grown on rocks, the stones should be inserted into the soil or and upon it at its natural level, and nover ruised above it. Stones are concitnes well, when isnd on the surface, in retaining moisture and keeping the soil cool, but in all classes shade is necessary, for if the stones are exposed to the full rays of the sun, they become greatly he ited, and give out this next at night, which is pnother unnatural condition to ferns, for, as almost every one may have noticed, the labitats of ferns are generally, if not always the coolest part of the woods at night. dried out, and if there is one thing more woods at night

Any of our lady friends who admire the

Any of our lady friends who admire these lovely plants, who having a border protected by the shadews of shrubs cast over it, not shaded by overhanging foliage, may indulge the tastes by making a collection of such of our hardy and native ferns as grow in her neighborhood. If a border shaded by shrubs is not to be had, the north side of a fence or building will answer the purpose.

The ferns may be dug up from their native habitat and transplanted into the border at any time during the summer, care being taken to lift them with a good supply of roots, and keeping them from getting dry. This is most readily done by laying them in a basket and covering them with damp moss as they are taken up. After they are planted in the border, they should have a liberal supply of water. In the autumn, after the foliage has died down, they should have a covering of two or three inches of leaves, which must be removed early in the spring.

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Many of our native species are quite rare,
and all are possessed of great beauty, hunting
for them will give many a pleasant and
delightful ramble in the woods, and their
cultivation will well repay any little trouble or
fatigue in obtaining them.—Harper's Bazar.

SPECIFIC FOR INSECTS AND MILDEW IN ORCHARDS.

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Prof. C. Thomas says —Insects and mildews, injurious to the leaves of seedlings and root grafts, can be kept in subjection or destroyed by a free use of a combination of lime and sulphur. Take of quick or unslaked lime, four parts, and of common flowers of sulphur, one part (four pounds of sulphur to one peck of lime), break up the lime in small bits them mixing the sulphur with it in a tight vessel (from is best), pour on them enough boiling water to slake the lime to a powder, cover in the vessel close as soon as the water is poured on, this makes also a most excellent whitewach for orchard trees, and is very useful as a proventive of blight on peur trees, to cover the wounds in the form of a paste when cutting sway diseased parts. Also for coating the trees in April. It may be considered as the one specific for many noxious insects and mildow in the orchard and nursery, its meterials should alway be ready at hand; it should be used quite fresh, as it would in time become sulphate of lime and so lose its potency. Wherever dusting of lime is spoken of, this should be used. This preparation should be spinkled over the young plant as soon as or before any trouble from aphides, thous or mildow occurs, early in the morning while the downs on the trees. This lime and sulphur combination is destructive to these pests in this way, first, by giving off sulphurio and gas which is deadly poison to minute life, both animal and fungoid; and the lime destroys by contact the same things, besides its presence is noxious to them, neither is it injurious to common vegetable life, except in excess, unless the lime to the foliage of evergreens.

Buy Swall Trees.—Nurserymen usually describe trees on their catalogues as "second class," "maduum," "first class," and "extra." The difference in these classes is principally, if not wholly, in the size and height of the The difference in these classes is principally, if not wholly, in the size and height of the trees, and as most farmers deene the best, they suppose that the large "extra" trees merit that description, and hence order them. The fact is, however, that a small tree will know insiter and if a 'truit tree, come into bearing condition somes than a large one and, as the New England Homestead states, in half a dozen years the tree that was small when planted will be larger and finer than the other. The larges the tree, the larger the roots which it has, and the larger the roots the less fibres there will be upon thom. A tree that has picinty of fibrous roots will grow readily if proper cure is used in transportation: but no amount of shill can cost a tree of these little fibres. The roots of large trees are slways hiere or less mutilated in the process of taking up, while small trees suitain little injury from the source. Dealers in trees assert that expinitioned membry small, thrifty trees, while those The larger the type, the larger the roots which it has and the larger the roots the less fibres that which it has not the lass fibres there will be upon them. A tree that has plenty of fibrous roots will grow readily if proper care is used in transportation: but no amount of still can coax a tree to live and flourable which is destinate of these little fibres. The roots of large tree and its lives are lives and lating upon air is directly opposed to that discess. While small trees suctain little injury froit this source. Deslowin trous sessent that expiritions of health under any circumstances. When who are just starting are anxions for the largest to be had. Those who are to set trees the coming season will do well to learn from the coming season will do well to learn from the coming season will do well to learn from the coming season will do well to learn from the coming season will do well to learn from the coming season will do well to learn from the coming season will do well to learn from the coming season will do well to learn from the coming season will do well to learn from the coming season.

the experience of those who, at considerable loss to themselves; have demonstrated that small trees are the ones to buy.

small trees are the ones to buy.

A Scientific Scarrenow - The, Scientific American gives the following directions for making a seart row on scientific principles. "The first and the best is a suspended looking glass. Take two small, cheup infrens, fasten them back to back, attach a cord to one angle and hang them to an elastic pole. When the glass wings the sun's rays are reflected all over the field, even if it is a large one, and even the oldest and bravest of crows will depart precipitately should one of its lightning dashes fall on him. Thosecond plan, although a terror to rows, is especially well edited to fields subject to the intrads of small births and even chickens. It involves an artificial hawk, if ields subject to the intends of small birtls and oven chickens. It involves an artificial hawk, made from a big potato and long gotte and turkey feathers. The maker can exercise, his initiative skill in sticking the feathers into the potato so that they resemble the spread wings and tail of the hawk. It is astenishing what a ferocious looking hird of prey can be constructed from the above simple material. It only remains to hang the object from a tall, bent pole, and the wind will do the rest. The hird will make swoops and dashes in the most headlong and threatening inanner. Even the most inquisitive of venerable hens has been known to hurry rapidly from its dangerous vicinity, while to small birds it extrict summixed dismay."

vicinity, while to small birds it carries entmixed dismay"

When to seed Down to Grass.—I have not a doubt that August is the best time. Grass sowed then looks well now, though it hardly started perceptibly before frost, and it appeared to grow but little after that. Even that sowed with late tye is starting now finely, and will stand a drouth much better than any spring sown grass possibly can. Outs seem so much a necessity to horses, that I have favored seeding down with that crop, and raise generally only tye enough for what straw we need. But last summer's experience is a warning. I met Mr. Barstowe, of Norwich, Ct., a life long dealer in implements and seeds for farmers, and he appealed to me to know what time of the year it was best to sow grass seed. With the manner of Sir Oracle I said August,—and, it seems, confirmed some advice which he had just been giving. For my part I was very glad also to be confirmed in my view by so experienced an observer. Rather than sow grass seed with outs, and take the charces of the summer, I think it will pay to plow the cat stubble, and sow the grass and clover together as early as the cats can be getten off the land.—American Agraciaturus.

Sexell Faurs.—The Factory and Farm says and with entire truth. "No graden is so small"

together as early as the cats can be getten off
the Emil.—American Agricollurist.

Selle Feuris.—The Factory and Farm says
and with entire truth. "No garden is so small
that an assortment of small fruit cannot be
grown in it, and only those who have been
thoughtful and planted the vine or tree in its
little spot among the other collected good
things really understands how much can be
obtained from a small patch of ground. Because large things cannot be done and extensive preparations made for these things, the
many do ust enjoy thom. A small spot of
ground will produce a large yield of strawberries. They open the season of fruit and
last about a month, producing a daily supply
and banishing sickness from the family. Then,
if a few raspberry bushes have been provided
in the out-of-the-way places in the garden,
that delicious fruit follows fast upon the heels
of its forerunner, the strawberry, lasting not
quite so long, but filling the interval until the
blackberries are ready. Those to be followed
with grapes in great variety, thus giving a
sessen of small fruit, with little cost of labor
or attention and a great saving in providing
the table, besides making it better."

— The old-fashioned farmer can perhaps remember when he stayed at the idea of labor

-The old-fashioned farmer can perhaps re The old-fashioned farmer can perhaps remember when he stared at the idea of balling has and putting a whole load into a few compact bundles. Years ago, however, it became a familiar practice. But we donbt if it has ever occurred to him to bale manure, and he will stare in good carnest to be told that Mr. Ackerman, of New York, is doing this verything. He bales stable manure in a combibit hay press, and finds that it can be handled as easily as hay, will keep any length of tingid without spoiling, does not heat, but grad ally decomposes into a peat-like substance, and is whetout sponing, does not host, but grad fairly decomposes into a rest-like substance, and is in fine order to apply to the land. By-and by we shall expect to see our farmers drawing their baied hay to market and returning with full loads of baied manure. The circle of production will then be complete.

DOM, ESTIC: ODDS AND ENDS.

BY THEO

As many Tushions have originated to hide deformities, so hard times suggest many ideas to use up the odds and ends. Nothing need be discreyed because it is old-fashioned and as to use in the odds and ends. Nothing need be distroyed because it is old-finshioned and us fashion is so, capriciona, is a large funnly, it takes it little time and thought, by some of its members, to "gather up the tragments that nothing, he lost." The bright-colored woodlen dresses which were worn a few years age, now hid, aside for more sembre has, make yery soft, warm comfurtables, which taked with pieces of plain cloth or merino look very pretty and will last a number of years. It takes a little time, but it pays.

I have trained my English and German my all around my windows and pictures, with the wire taken from old-fashioned bonnets, and used the other material for making pin-cushions, which look fresh and new for the dressing-table when the house is cleaned. Newspapers are very useful when laid in several thicknesses on your floor before putting down a nice carpet, and especially where a room is over a fedlar, as they preserve a carpet from damp and mildow.

and mildow.

The nice tin boxes that we get from the geocers, with spices, baking powder, and mustard, can be made into very useful and pretty ornaments, the large size, covered with silver or gilt card-board with a pattern worked on with bright-odored zophyr make tasteful holders for flowers, antumn leaves or lamp-lighters.

The smaller sizes are handy to bake spongeness in Fruit and ovetor cans when painted,

The single sizes are handy to take sponge-cake in. Fruit and oyster cans when painted, look well on a flower-stand, for plants or trail-ing vines and I find them useful for starting seeds and outlings in at this season, and have often wondered why so many persons wasted them.

Then the various colored envelopes and bright colored papers that are usually burn-ed make lamp-lighters to put in the holders

mentioned above.

Paper collar boxes, are also very useful for many purposes. By taking three of the same size and sewing them together diagonally, you can form a wall-basket for some nook in your dressing from. Then take one, fill it with dresdig-room. Then take one, fill it with wool or any material you wish, and crochet a cover for it of worsted and you will find it convenient for hair-pina. I save every pasteboard box, as I make candied fruit in summer of peatites, cherries, etc. then pack them with layers of sugar. Large pasteboard boxes can be used as the foundation for brackets, which are very handloins made of silver or gilt cardboard, with patterns worked on them in basket-stitch of worsted or cherille.

When persons live where game is plentiful, it is quite an important item to save the fea-

there percent every core game is picularin, it is quite an important item to save the feathers and wings, especially the pretty motified wings of pertridges. Lay them out flat when fresh with a fist-iron on them and they will dry smoothly. Then by placing them in successive rows, you can form the most leastiful. dessive rows, you can form the most beautiful bracket or ornament that your fancy suggests. I nover saw one until I pli ned one for myself, which has been much admired. The short feathers of birds can be sewed in rows on cloth for lainp-mats.

These few hints may appear comowhat insignificant to my readers, but "coonomy is wealth" It-takes time to exercise our genius, it also affords entertainment, and makes home plessant and cheerful - Christian Weekly

Cricaro Grooterras.—One large chicken, or two medium-steed once, chopped fine. Put two unites of botter in a pan, with two well-filled tablespoons of flour, one put cream, and then, seeson with saif, popper and herbs to your taste. Let this mixture boil until it reaches the consistency of thick custard. Take off the fire, then stir into it as much of the chopped meat as is requisite to make it thick enough so that when cold it can be found in to alls. Also stir in the yolk of one egy When cold through make in crequettes and in peach one in a batter made of one eggs, then roll in line bread crumbs and fry in hot butter.

To first Oriser.—Often the heads thereughly, take off the coarse green outer leaves out in small pieces, and serve in a little brock. When tender, add some packers as a little flour and butter, enough to thicken the crosm Season with popper; sall and a little nutment if that is agreeable.

Griner Saux. One cup engar, one of but-ter, the of molikes, the egg, the even tes-specialis ginger and ergan of impart, and small temperated of sods directed in three labelspoonful of sods directed in three labelspoonful of infin-of which will answer.

tablespoonfuls of mills or water will answer. Tablespoonfuls of mills or water will answer. Put the sods in after all disc is well houted together, and mir hard with flour.

Stories Carr — The tenent of flour, and tenent of conferent to three error. Mir sugar and yells of ergs well for them, beat the whites to a said froth, then add them to sugar, and lastly the flour and flavoring to suit the taste. This makes one leaf.