## Economical Farm Fencing.

How to fence has for many years been one of the most difficult problems to solve in connection with
the management of the farm whil the management of the farm. While timber for
fencing was in abundance, all that was required was to supply the labor hetween the standing tree and
the spake fence, and although this for the snake fence, and although this fence was considered a vast improvement upon the first barrier
that pioneers were wont to form in the that pioneers were wont to form in the woods to
keep their stock in bounds, and whose keep their stock in bounds, and whose appearance
has been well indicated by the old saying, "Homely has been well indicated by the old saying, "Homely
as a brush fence," yet it requires a strong stretch of imagination to see anything in the crooked rail fence beyond a temporary barrier, and a very unsightly one at that.
Wil fence, contending that if procate the crooked and ridered, it will last as long as any other varied of wooden fence, but the land it occupies, which is worse than wasted, toge ther with the utter impractilocalities, puts it entire, y out of the question. Most localites, puts it entire, y out of the question. Most
old "snake" fences will yield enough sound rails to construct a straight fence four or tive rails high, if posts are used and wire loops and staples for
fastening. Some of these patent reconstructed rail fences, however, are entirely worthless. Too many farmers are apparently striving to excel their neighbors in expending work building useless the farm gets behind, for nothing contributes to economical labor like laying out work so that when performed it it finished and lasting. In this way with the first heavy gale and they are again raised to their tottering height only to undergo the same experience, and th
perpetual turmoil.
If there is anything annoying it is bad fences;
they not only teach the stock they not only teach the stock on the farm to be breachy and troublesome, but contribute more to ill-
will leetween neighbors than any other cause is an open question which would first become reconciled atter being ensconced behind their more secur-
surroundings-the breachy stock or the cantanker ous neighbors.
It requires very little reflection and less calculation to become conversant with the fact that
fencing is the most costly department expense account; much of this is due to the farm expense account; much of this is due to the tem-
porary character of the fences most commend built. For example, to lay out a one-hundred-ancre farm in convenient form and in ten acre fields it will take over 1,000 rods of fence, and if this be
built with boards it will cost fully $\$ 1.00$ per rod in other words $\$ 1,000$. Supposing this fence to last (Wenty years, with simple interest at six per cent.
per annum, divide the principle in twent per annum, divide the principle in twenty equal
parts, the combined interest and principle will just amount to $\$ 110$ per year. A pretty serious item in the farm expenditure any farmer will say, yet there it is
out of it.
Side by side with every conceivable sort of rail,
board and picket fence, we have wire fences pretty nearly the same multiformity. Some of strong claims, for example, are made on behalf of
the Page Woven Wire Fence as a complete barn to anl kinds of stock, in being a complitete barrier strengh and elasticity owing to its coiled springs. is said that it will not sag nor draw together be-
tween, but we would be disposed to recommend more in order to greater security. After a thorough
test on a small scale the Lake Erie te Detroit Rail-
wis liast year used seventy-five miles of this Rence way last year used seventy-five miles of this fence.
Some forty rods having been in use for years on the
 st yle of fence is sold ready to stretch on the posts. fences, doubtless instituted witha view of providing
winter pasture for fiel mice, if we may judge of
the wa puthese rodents have gone for rods of hedge plants during last winter. They have appreciated
t'le cflorts of the companies who have provided the plants, but just who is to fo her the loss the fed tarmer will tell later on, and probably when settling time
connes round pleasantries will be at a premium.
 expertidions the company will be that thas had itils
pervalitive agents abroad. This we can say, that
 it hese prospective hedges, the the owners of of
of ithe that the alloted time when the
tence should be handed over is drawing
 ", Hlants were first set out.
they will make an impassable barrier if
n. pists and wires are placed amone the
nhive no doubt, hut just what part the
hedge plant itself is to play, further than ornament
we wwill leave some one else to answer. With
wit regard to the obligations that farmers have placed
on themselves in on themselves in giving orders for these fences we
cannot say, but we would feel tempted to try how
 we countracts. inclined to pay the last instalment on
That wire fences future field barriers people seem prety are to be the farm is the question to be decequidements of the weak and strong points of each that we wish to
disust discuss. Those who have had thatuable whish to to
other animals ruined by the cruel barbed wire
realize thats other animals ruined by the cruel barbed wire
realize that it should have no place where valuable
stock is kept. A A ain this fonce stock is kept. Aghain, have no parace where valuatee does not answer
the purpose of a barrier, unless uncommonly well
hei built, as the wires are readily sprung apart, and by
this mean unvely upon the crops in the adjeining field. difficulty is found with many of the smooth wire
fences where no netting fences where no netting
to hold the wires together
Thow, what are the requisites of cheap fencing: The answer is, $A$ fence that requires the least number
of posts, with wire at the of posts, with wire at the cheapest rate per pound,
with the other necessary attributes of $a$, lasting structure thatsis is not injurious to the thect
it confines. This latter danger is strong smooth wire is used, and permanent dura-
bility is as this gained hy utilizing, stays and clamps, such
as the Locked Wire Fence
and applying, either in the case of of or or nece fenceses.
In building this sort, seven horizontal wires are used, althg this in sort, seven horizontal wires are
ered sufficient. $H$ 隹 cheap; it can be purchased at three smooth and cents per pound, but it is in the stay and lock that
forms the the wires strength, as the lock effectually ties all
con
an porming a truss that no animal can possibly get throngh or break down. Other
good points in this fence are. The ood pointsin this fence are: The ease with which
it can be joined if the wires have been cut to tont gap, or under any emergency; the fence readily
adjusts itself to excessive heat or cold ; if weighed
din own with ice or snow, when freed it springs back
and assumes its former position without assist It is strong and durable. Gates can be ver. cheaply made on the same principles. ch be very
also suitable for lawns and gardens.

Millet.
There are several distinct varieties of this grass,
of which the Hungarian grass and common millet of which the Hungarian grass and common millet
are the kinds most frequently sown, although German millet, which matures a little later in the season, is grown to some extent with good results.
Our experin with the view of providing a good substitute for hay in the short years, and they have a number of new varieties which they report as being much superior to the common varietieś now grown.
In this country it
In this country it is grown altogether as a fodder is especially valuable to supplemed as hay. Millet in bad years, for a farmer can wait until he cand termine the yield of his hay or ensilage crops before sowing, consequently he can calculate the amount of millet which will be necessary to insure the usual
amount of winter feed for his amount of winter feed for his stock; while nearly
all other crops require an earlier sowing as well all other crops require an earlier sowing as well as
a longer season of growth, millet can be put in A longer season of growth, millet can be put in
quite late in the season and still give a heavy crop of feed
A dry rich soil is desirable, but though it will will grow well on any soil of sufficient richnces to give a good crop of corn or potatoes. The soil
should be well pulverized smooth and level, so that the small seeds may not be are enough teeply. From three pecks to thirty quarts wre enough, when sown broaycast; if drilled, less
will be needed. After sowing the seed roll the sur-
face face. Sow after corn planting is finished, when the the
weather has become settled and the nights hre weather hhas become setled and the nights are
warm, wich will doubtless, in most phrts of (anada,
be It should be cut as soon as the heals are well formed and before the seed as thens headd are well
very irregularly: some heads will be rilet rivens others rege just shooting out, so it should the cut on the early side to get the best quality of feedn (Ont
with a mower and cure the same as common hay. with a mower and cure the same as common hay.
One objection to the general growth of this crop is reound that it is an annual and thus repurires the Son. Minllet mrakees very rich the seed sed sown eatch sea-
stock eat it greedily, stock eat it greedily, so that most growers prefer to
mix it with common hay or other coarse fodder. If
any of the crop has been nllowe the any of the crop has been allowed to go to seced it
should he fed with great care and omly in smail quantities, as there is a certatill amount of danger in
feeding at this stage. (ireat care must be exererised
when buyin When buying silite and Hungrarian Hrast se exercised, thed
it is pure and free from foul weed seeds.
A trait it is pure and free froml foul weed seeds, A, Hreat
dealoo mustard and similar seedd have toen intro
duced into the Northwest ind Nanitoba in this


There is a peculiar Portraiture. done that comes to the satisisher in work well Though aiming at constant improvement in all departments, we are reminded by many congratul page illustrations of the FARMER'S ADVoc fron hibit a distinct advance in this feature of agriultural journalisn. Recognizing the existing oo be past years for mprovement, we are pleased to be able to place within reach of Canadian
breeders a class of work that will do life-like Justice to stock, the excellence of which has gained
world-wide repute. The portrait of Messrs. Jackson's Southdowns, occupying the place of honor in this is qualle, has probably never been excelle itity remarkable. Among others with which we hope
to fand John Bell's celebrated Tamworth swine of Mr. Gibson, \& Walker's Lincoln sheep and the noted
Ayrshire sire at the head of Mr. Thos. Guy's herd.
The Hawks and Owls of North America and Their Relation to Agriculture.
Bulletin No. 3 of the United States Departiment of Ornithology and Mammalogy describes the
above birds and their value to the farmer. The statements made in this book regarding the foods consumed are based upon a critical examination of about 2,00 stomachs, hous showing the enormous amount of labor expended in compiling the
work. The results prove beyond a doubt th class of birds commonly looked upon as enemies of
the farmer and destroved whenever occosion offers, really ranks asmong his best friends, and
with $n$ fect couraged exceptions, should be preserved and Only six of the the up upenty-three species of hawksand Owls are injurious, and of these three are so rare that
they need Hawk, is only indirectly injurious, leaving only two the Sharp-shinned Hawk and Cooper's, or the etrue
Chicken Hawk, that really need to be taken into Chicken Hawk, that really need to be taken into species which feed largely upon poultry and game,
2212 stomachs were examined, of which 5 g per cent contained miceand oxthersmali, of which 56 per cent. insects, and only 3 per cent poultry or $\%$ per cent, Insects, and only 3y per cent. pooltry or rame birds.
In view of this the folly of oftering bounties for the
destruction of hawk destruction of hawks and owls, as has been done by
 withdraw
At firs
divide birsts sight it would seem an easy matter to beneficial, but in fact therereat is nosses of injurious and
because the difficult task, hecause their habits vary with the different
locations and the different seasons of Focations and the different seasons of the year.
For instance, the bobolink is one of the most highly
prized visitors of the Northern Stes prized visitors of the Northern States and Canada,
hut in the Southern States this same bobolink, here called Southern States this same bobolink,
the bird, annually damages the rice crop to the extent of annually damanes the
crow is onsidered one on dollars. The crow is considered one of the worst enemies of the
corn field, but when the corn is past danger the crow changes from an obnoxious to an exennplary In -worm and other insects and
In spite of
re injurious, the general opinion that these birds owls are among the most heneficial of all birds, inficting very lititle damage upon the poulterer, and confrring vast benefits upon the farmer; also that
all haws, with possibly one or two exceptions, are to some extent heneficial to the farmer
This work divides hawks
classes; the first contains six and owls into four harmless birds, of which the Rough Legred Hal or or wrongly named Hen Hawk, is the best known, This hawk lives principally "pon mice and other
small rodents. The second class includes those sman rodents. The second, class includes those
which are mainly heneficial, and contains thirty-
four Spar varie Haw, of which the best known are the
Owl Bawn Owl, Screech Owl, Hawk thase in which the good and evill talance class includes This class contains seven birds, of which the
Golden Eacle, Bald Eayle Pigeon Golden Eagle, Bald Eagle, Pigeon Hawk and Great
Horned Ow Are well known. The fourth or injur
ious clusu has ious class has already been mentioned: Cooper's
Hawk is a States is a a common sanacies throughout the United which birds of prey are looked upon is due to the
depredations of this true chicken depredations of this true Chicken Hawk, to eether
with its smaller congener, the sharp-shinned tawk.
Vinquestionably both species should be destroyed nquestionably both species sho
whenever and wherever possible
It will be seen from this bulletim birds of prey there are hut two which hateserves our mercy. The greater number panss perstied without whole lives
in the constant performance of acth of wren





