CORN IN PORK MAKING.

In answer to an inquiry on the question, how many pounds of perk will a bushel of corn make and the relative value of corn per bushel, in comparison with the price of pork, we have examined the records of careful experiments by farmers, with a view to getting at facts. From these we have selected a number of cases bear-ing directly upon the question, the experiments being, of course, made by feeding in pens, since in no other way can the question be satisfacto-rily decided.

An impression pressile that

these we have selected a number of cases bearing directly upon the question, the experiments being, of course, made by feeding in pens, since in no other way can the question be satisfactorily decided.

An impression prevails that when perk is worth five cents per pound, gross, corn is worth. 59 cents to the farmer to feed. This is not far out of the way, where fair care and judgment is used in the feeding, being on the basis of ten pounds of perk per lusded of corn.

One of the experiments we present is by Mr. L. B. Bingsam, Bioomington, Wisconsin, where 50 binshed of corn at 75 pounds of perk, averaging a gain of 607, piumbe of perk, averaging a per humber, or many control of shelled corn. Thus, if pork be worth six cents per pumber, or many control of shelled corn. Thus, if pork be worth six cents per pumber, determined the corn gave 150 pounds per bushed, etc.

Mr. J. M. Billingsby, Spring Valley, Indiana, fed 71 landrels of corn in the car, at 68 pounds per bushed, which gave 150 pounds per pumber of the pens of seven per bushed; at five cents, 35 cents per bushed, and so out down the scale.

The lows Agricultural Report for 1872, gives the record of five pens of swine, of two cach, put up September 4th, the weight of the swine being given when put in and when taken out. They were of the following breeds: Native, Rerkshire, Chester White, a cross-fetween Berkshire and Chester White, and a cross of Chester and Suffalk. In all, ten hogs. On October 19th they were again weighed. Each of the five pens had been fed seven and one-half busheds of new corn on the car, or 37) busheds for the ten longs. They gained in this time 315 pounds. This pork must therefore have brought him 35,62 per 100 pounds. This will correspond, with the market price of pork at that time. In these experiments we get as an average gain for these we have noted, first, any 12 pounds and for the five pens, say 131 pounds

THE CHERRYMOVER.

We hear that fruit from the cherrymoyer,

We hear that fruit from the cherrymoyer, cashew tree (Amourations occidentale, L.) ripensel in San Diego Co., Cal., during the present year. We notice that the Floridians are growing it. Mr. Benjamin Hall writes to the Floridia Agriculturist as follows:

This large, wide-spreading tropical tree is of the family of Threbintheres. Its leaves are of a bright green color, entire and lancolate. The fruit consists of a pear or cocumber-shaped ruit stem, on which is a large brown not. The two are used both raw as well as cooked into two are used both raw as well as cooked into the fruit stem, on which is a large brown not. The two are used both raw as well as cooked into taste, and the kernel, when peeled and reasted, lastes very much like elestants. Formerly the natives of Brazil went to war with each other on account of this fruit, and the conquerors isotatilished themselves about the trees till the fruit was all consumed. This tree is imigenous to the West Indies. Cuttral America, Guiana, Feru and Brazil, and is entitived to a considerable extent there also. The Portugues transplanted this useful tree as early as the 16th century to the East Indies and the Indian archipelage. All its names point to an American origin. He existence on the canters coast of Africa is of still more recent date, while neither China, Japan nor the islands of the Pacinic event are sequanted with it. He fruit stem is semantimes longer and sumetimes shorter, varying with the influence of cultivation. In the Asiatic plant the stem is always shorter, ranying with the influence of cultivation. In the Asiatic plant the stem is always shorter, ranying with the influence of cultivation. In the Asiatic plant the stem is always shorter, ranying with the influence of cultivation. In the Asiatic plant the stem is always shorter. This beautiful tree appears to be deserving of mach merri, and is in every sense weythy of a careful trial.

In the fall of 1876 your correspondent received seed from Mr. Cadernation, of the Foreir fine two minings regerered

FIGHTING GRASSHOPPERS.

PIGHTING GRASSHOPPERS.

Our readers will recall the appointment this spring of a Government Grasshopper Commission. The Commission undertakes, as a branch of its labors, the promulgation of the best means of fighting the insects. In order to do some good this season, there was sent out, a few days ago, a preliminary report of ways and means of destruction. We shall quote from this report some of the methods said to be most effective, as they are not uninteresting reading. Heavy rolling, where the surface of the soil is sufficiently firm and even, destroys a large number of the newly-hatched young during the first eight or 10 days after hatching, and in the mornings and evenings subsequently. They then drive almost as readily as sheep, and may be burned in large quantities by being driven into winrows or piles of lourning hay or straw. They may also be stilled with keresenne, and by means of flattened bearing implements.

But the best method is ditching. A ditch two feet wide and two feet deep, with perpendicular sides, offers an effectual barrier to the young insects. They tumbe into it and accumulate and die at the bottom in large quantities. In a few days the stench becomes great, and mocessitate the covering of the mass. In order to keep the main ditch open, therefore, it is best to dig pits or deeper side ditches at short intervals, into which the hoppers will accumulate and be are desired. Made around a field about hatching time, few hoppers will get into that field till they acquire wangs, and by that time the principal danger is over, and the insects are

AN'OLD-COUNTRY SHEPHERD.

Our readers will smile at the illustration upor Our readers will smile at the illustration upon this page, and deem it a fancy sketch, or at least an exaggeration, but it is not, it is a sketch from nature in the southwestern part of France. Portions of that country are exceedingly damp and marshy, as they afford excellent pasture for sheep, however, they are quite well settled, the inhabitants calling in the aid of stills to aid them in becoming over their near, matures. inhabitants calling in the aid of stilts to aid them in locomotion over their coay pastures. So acoustomed to them do they become that in time walking selfoot them goes as awkwardly with them, almost, as walking with them would with us. The thrifty shepherd in our engrav-ing is improving his time with the knitting nee-dles while his flocks are quietly feeding—the manufacture of the family stockings still being a masculine duty in some of the back countries of Europe.

of Europe.

Hassans Prance.—According to Acclimatation, there are in France about 40,000,000 hem,
which are astimated to have an average value of
2.50 france (30 conta) cach, or 100,000,000 france
(22,000,000) in all. Of these about one-fifth
are enosumed annually, at a market value of
25,000,000 france. There are also hatched anunally 100,000,000 chickens, from which should
be taken 10,000,000 of producers destined to replace the adults that have been sacrificed. The
quantity must be further reduced by 10,000,000
on account of accidents and disease. We have,
then, the number of 20,000,000 of chickens,
which, solid at 1,50 france spicce, give a profit
of 120,000,000 of france. To this should be
added, on account of the extra value of capons



AN OLD-COUNTRY SHEPHERD.

Per a selection of the content of th

HEAT

In resuming his lectures at the Royal Institution, London, Prof. Tyndall, having caused a
ball of lead to fall from the roof of the theater
on to a stone, drew the ball up again and let
it down gently with a string and palley. The
heat generated by the collision in the first instance was the exact equivalent of the heat produced in his finger and thumb and in the string
in the second instance. The outlay of the
miscolar force expended in drawing up the
ball was made obvious by causing the ball to be
dirawn up again by a small engine worked by
commended by consumption with oxygen, smilcient to lift a weight of 50 ton x yea, smilcient to lift a weight of 50 ton x yea, smilcient to lift a weight of 50 ton x yea, smilcient to lift a weight of 50 ton x yea, smilcient to lift a weight of 50 ton x yea, smilcient to lift a weight of 50 ton x yea, smilcient to lift a weight of 50 ton x yea, smilcient to lift a weight of 50 ton x yea, smilcient to lift a weight of 50 ton x yea, smilcient to lift a weight of 50 ton x yea, smilcient beat for the control of that
velocity could be easily calculated, and sometime ago he was led to the conclusion that the
stoppage of a ride builet would produce sufficient heat to fine the metal. This conclusion
was proved in the Franco-German war, when
builets which had been stopped by contact with
a bone, showed on being extracted undoubted
marks, in many cases, of a fusion. It amathing had also been illustrated incidentally in
the experiments with gun cotton at Stowmarket. The old notion of heat was that it was a
substance which sould be squeezed out of mattier as water was squeezed out of a sponge. A
builet squeezed in a hydraulic press acquired
heat, which was rendered obvious in the galvanouncter by the thermo-electric pile. Even
as late as the time of Faralay, it was conceived
that heat was something for which some bodies
had a greater capacity for heat. The heat thus proflue air gave to the comparatively empty vessel
and to a vessel in which the

Filtx for Welling Street.—An intelligent reader of the Manafacturer and Ruider, who has had extensive experience in welding steel, and steel to iron, communicates the following formula and manipulation of the heated metals to be welded. He says: "To one part of floured sulpiur aid two parts of sal ammonine and 10 parts of loars. After having pulverised these ingredients, mingle the mass thoroughly in an iron kettle, put it over the fire, and continue a steady heat until every particle is melted. As soon as all the spume has disappeared from the surface, the flux should be porreal out into another vessel and allowed to cook. Now reduce it to a fine powder, and it will be ready for use. When two pieces of steel are to be welded, the ends should first be heated to reclues and all rust and scales be removed by filing or grinding, after which let the metal be heated in a clear and steady fire of charcoal until a welding heat is attained, when the heated steel will appear of a bright yellow. Great care must be exercised lost the surface of the steel be raised to a degree of hoat above the welding point, which is always ruinous to good steel. Now sprinkle some of the flux on the lasted bars, remove all scales, return the parts to the fire, bring them carefully to a welding heat, and unter the cleau, smooth surfaces beneath the hammer. A skillful smith who has hall but a limited experience in welding, will be able to perform a satisfactory job with little difficulty when welding steel to steel, or steel to iron.

we notice Prof. R. G. Wilder, of Cornelli Prof.
W. G. Farlow, of Harvardi Prof. S. I. Smith,
of Yale, and half a desen others. The enterprise is under the management of Mr. James
Woodruff and Gen. Daniel Macaniley, of Indian
apolis, Indiana. We believe that applications
for students places in the floating university are
still acceptable and full information can be
gamed by addressing the managers at the place
samed.

Haw for Sandwiches. A writer gives the
following to the Constry Gentleman: Bod as forthe table, take one-thrif fat, two-thrids lean,
chop fine, add a small teaspoonful each of peper suice and Worcestershire of Halford sauce,
mustard and cayenne pepper; mix thoroughly
and keep in a tightly covered bowl. To make
amount of the management is which learn the
sandwiches, cut white bread in atmost slices of
uniform thickness, spread thinly with butter,
then spread with the prepared ham thickly or
thinly, as suits your taste, adding to suit your
self. I make a pint bowlful at a time.

Cencar Contract, and directly and the contract of the manner in which is ham be
figured up. A shed or room 15 feet high, 18
feet wide and 300 feet long will hold 900 tons of
anthracitic coal, and perhaps 10 tons less of
Cumberland, Thus Harkkano 8, 100, divided
by 40, average cubic contents of a ton of an
thracite 2023.