COBS IN POLK MAKING,
In asorner to an impruiry on the quastion, how
naaky poumis of pork will a huathel of corn make abl the relative value of cars per hamel,
in compariven with thn prion of purti, we hare exmined the mourds of careful experimentes by Carmers, with a view to getting at facts. Fromi
those wo hare seloctol a mumher of easel lear-


 to ceitt to the farmer to feol. Thin io wot far
out of the way, where fair eare ant julgroent is

One of the Exeminuaterve cont pront in ky Mr





 down the nale
Thie luwa Ave
The liwa Aysicultural leppart for 18\%9, gives poing sopten when put the weight of the swine











 TIL CHERLYMOYELL
 pried in Kan Dingo Cos, CaL, durimg the prowent wigh it Mr. Menjamia Hall writes to the सYom





 n aswant of thie fruit, aut the coninurare



 A Shrina is int suill mare. reent date, whil


 maub turit,
carfult tral
In the fall
 In three wekko themafter the gunug plats liad



 To the alove the ner nil shith climate.
 Theos a gine whindew itwe in fatiel. It pros The face trum the mut is vory cauntio, wol pro.





 pou a plate anil damperied with water. The



FIGHTLSG GRASsHOFPERS.
AN'OLD.COUNTRY SHEPHEKD.
Our railers will amile at the illustration upan this page, and deem it A fancy sketch, or at least ao ceaggeration, but it in not, it is a nkoteh Portions of that cornitry are exceedingly damp nud manihy; as they affoni exocllent pauture for shomp however, they are quite well settled, the than in locomotimn over their oury patures So nocutouned to them do they becomp that in
tiace raiking wilheat them geo an awlowanily time making, wilkat them, gues as awwanily
with them, almout, an walking with them wouth with uis. The thrifty thepherd in our emgrar.

 4 nasualine
of Narojes.
 whith su retimatel to have an aversog value of

 ma,000,000 fratuox Thare are alao hatched at
maily 100000000 chiokens, from which should
 place the aiflts that have been sacriniced. Tho ynantity munt be further reducol by $10,000,000$,
on acconat of accidenta anal diasane
We lave on account nt accilenta and divene We have,
thrin, the number of $80,000,000$ of chivkens, Which, whil at 1.30 francs apisce, pive a profit
of 1 Ro,000,000 of frames To this shoult be
aidel, on anount of the extra valoe of capous


is oLd countix shepheits.

| Prearing. If any should hatch within |  |
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| rent parts of the fielli. |  |
| fienst lecug kuown, from thirir hathing loal. |  |
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| in setwrally nutficien, and when |  |
| puat they car cyuntruit a long ditch which will protect many fanmers. |  |
| have met a domit hut that with proper |  |
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| We the ingects first hatiot, evrnthitg can ie |  |
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| ves the twolot lith heee marh of its value. How |  |
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| Sowsts, atil ntic whirh is the of. |  |
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| alsuad. I'raine chockens and quails devour |  |
| "ges: mallome and hachlinds purve themi un. |  |
| nientitigly. |  |
| larges number is peaible of hoge and |  |
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| nying the guing levuits. |  |
|  |  |

In rewuming his lecturon at the Royal Ioati tution, Lemdon, Prof. Tyndall, having casued ball of lead to fill from the roof of the theater the a cone, dirus the hall up again and let down gontly with a string and pallog. The heat guncrated liy the wollimion in the firrt in ducel in hin titiger and thumb noid in the prosin the secoud instanes The outlay of the mutcalar foroo expendod in drawing up the
hal was mate obriouns by caving the bail to be
 hont erolvel by a quantity of conivaleat of the cient to lift a wrupht of 51 with wagen, suift 100 fort alowe the nurth, would be proinced by
he collision of that man with the he collision of that mase with the narth rhis the heat generntel ty the dertrection of thaty, velocity oonh be casily calculatell, and some toppaing of a ritle tout the conclasion that the dent hat to fuav the metal. This conclumin. vai proved in tho Fraico-Cernaan war, whem a bone, showed on being extracted umitoubtel marks, in many ches, of a fulion, The name he experiments with pun cotton at Stownar
ket. The ohl notion of hiat was the ulhetance which coulld the mpluesead out of mas a for as water was nqueered out of a vponpe.
 heat, wich was retalersd obvipua in the gal-
vanmoter by the thernuelectric pile. Even
as late as the time of Farulay, it hat heat was womed ung for mot was concerved aid a grrater capacity than others, if com.
promel air from voe vesel was allowal to into a verod in which the promure war much
lons, it would have loen said that the mution of he air gave to tho companatively empty roase lucol mas hlown by means of the galvanometer amil thermo-vecetric pile; but the reason for ontly underntiod now: The cooflicmite differ-- ypansion of gaca was next describel with motuo minutenoss and, oontinuing the ilintra-
tinn of what nseal to be fermed "capacity for Hnt of what nael to be fermed "eapacity for
hast, "the lecturer anit the explanation of dif. Corent metals, whin mbjected to tho ammo de.
Trev of huat, not poasesing in themaelvea th groe of hast, not poncesing in thenselves the
name amount of hiat, was that heat hait two operations-mee, the production of tremon
(Which was heat), the other the weakentin on molecular attraction Thus, if houl and iron werv expoeel to the aame high temperature the
leal would be nuch hotter than the iron the cause in the fornuer case less interval moleonelar horh waw performed, and more heat was ex. ouded in the proluction of tremors; whilo in the latter camo most heat was usel up in inter.
nal work, and liss in the prouluction of tromorn.
The eame degen in
 the apparent results were different, and bonop
rew ut the very natural notion that different
 has had exteanive exprrimes is wolling, ntoel, rmula mud namipulation of the the foted metals
 10 partur of lorax. parta of sal ammonian and
Aaving pulverised hose ingredicuts, minglter the mavis pulverisol
 nue a steady heat antil every particho it
neltoil. As won as all the spume has disup meatol, As woon as all the spume has disapp.
peased from the surface, the thax should bo
perral out inte auncher vesel anil allowed to
 thel are to be wofldel the cudh should pivees of natod to relhen and all rust and salos be re-
 hlarcoal until a welling heat is attained, when he hated sted will appear of a bijhit, yellow.
reat care muat be exerised lest the eurface of That care masi be exrcised lest the murface of wiliting primt, which io alvays nuinotur to good
ateel Now spinkle sotue of the flux on thie ated lan, remuve all salos, netarn the parta at, and unite the ceareal, smopoth warfacea vwath the hammer. A uliful mith who
has hal hat a limited experiunce in welding
 the diticuly
oee to inin.

Con Hearso,-A new Fretch mombuntible atk, and this is mixed with a uman or wood n nitrate of lead of nurits of niter, laked lime ir hom being added as agglatimatios mattor. tipnites canly, hums yramally and continu.
unfy in thin tate, and still slower hy adding a mall quaitity of wool darcol durt. Neither a
 nith a himitial xupply of air, will not hatevg. partirdy ounumed for about 16 hours, and during that
dime will derelop heat thnozth to warma a counmee will decclop beat emnegh to warma a cona-
 hwement on same such mode of hrating an
It may be that atcam pipes, supplied with either live oreshaus atean pipes, supplied with thexithe gatta perta piper, might $t=$ much hetter, but is is cortain that nome grueral pro.
visioun of safoty fromi this sutrie of danger to Te and property is nexded.

Gevial Actior. - The last English Aretic


 of extenaive lake valey of the glea,

