TURKEYS SPREAD GAPEWORM PEST

Demonstrated by Experiments Carried on at Washington and on Nearby Farms.

OLD CHICKENS NOT MFECTEE
Losses Can Bo Greatly Reduced by
Keeping Young Chickens on Ground Keeping Young Chickens on Ground
That Has Not Been Exposed to Contamination.

Prepared by the United states Depart
meat of Asricatture.) Turkey n are of Agricatiture.)
Thatathy
The natural hosts of the gapeworm-a nerlous pest
among young chlckens-and are an Important factor it their spread. This has been demonstrated by a zoologist
of the United Staten Department of of the United stat ea Department on the renault of expert
Agritent ind other investigations carried on at Washington, D. Cu, and on farm in several locuitites in Maryland. During three winter seasons begin-
along in December, 1916, a total of 635
chickens and 979 turkeys were ex-


For Best Results With Turkey Flock ambled in the Washington city market.
No knpeworms were found in the No knpeworms were found in the
chickens, but 22.5 per cent of the
turkeys were found to From 1 to 8 worms were found in each
of the infested turkeys.
$Z$ report of these Investigations has been published
by the department in Department Bulletin 939, "The Turkey as an In
portant Factor in the Spread of GapeIn view of the complete absence of
gapeworms from a large series of adult chickens and their common oc
currence in a similar series of adult turkeys, it would appear, the bulletin
says, that adult chickens are poorly
adapted ns hosts of turkeys above 3 years of age may
harbor tapeworms ts established by
the fact that a turkey while was kept the fact that a turkey which was kep
at the departments experiment sta-
ton at Bethesda, Md, for three years after it was brought there was found in pair of worms.
In the perpetuation of gapeworms farms the two chief factors, according
to the bulletin. appear to be turkeys and contaminated sill. Whether, in will regularly disappear has not been
definitely established, but it gems probable that it may often do so. Gape-
worms among chickens appear to be frequent the chicken runs than on
farms where there are no turkeys. Available evidence indicates that gapes
has a tendency to disappear on farms
following the removal of turkeys.

PRESERVING SOIL MOISTURE Pernicious Practice of Permitting Wa
ter to Be Discouraged.

The practice that prevails in some
rrigation locallites of letting the natrail moisture escape from the soil, th the Idea that more water can be
pilled when it is needed, is most per alclous nad should be discouraged, say apartment of Agriculture. If the moist. Corm of precipitation or as Irrigation water is retained by the soil it will en lint foods, rendering them available or plant growth. There is a feeling ty of water for Irrigation purposes ply of water for irrigation purposes,
but it should be remembered that trrl anion is nature's gift.

## Well-Filled Larder

A well-kept garden in summer

From experiments recorded in the ns, unitive turkeys, are readily suss only while they are young. They become less susceptible as they grow
older, Adult chickens are seldom a likely to spread tnfeetion, for th those inarises in which gapeworms develop
in adult chickens the parasites are liketo live only a short time.
Methods of Avoiding Lose.
Losses from tapeworms can be greatly reduced, if not altogether
avoIded, according to the bulletin, by keeping young ehlekens on ground
that has not been exposed to contamInaction within at least a year by
chickens with gapes or by turkey, and by excluding turkeys from it dur:ing Its occupancy by eltckens. As
this
gapeworms appear rarely to occur to gapoworms appear rarely to occur to
adult chickens, brood hens may be asmectated with young ebtekens with
lIttle risk of infection. The simplest means of preventing or reducing losses
from gapes appears to be the excluaton of turkeys from farms where chick-
ens are rated.

## INCREASED AVERAGE

OF PUREBRED SIRES
Progress in "Better Sires-Bet ter Stock" Campaign.

## Altogether 431,139 Head of Domes Animate. and Fowls Have Been Enrolled by Owners-Great. <br> est Activity in Ohio

ed by the United Beta Depart
meet of Agriculture.) A noticeable increase in the number of purebred animals listed in the "Bet
ter Sires-Better Stock" campaign
the principal development during the prificipnal development during the
first three months of 1921 . The re-
sur suit has been to raise the general av-
craze of purebreds for the whole canpulgu 11/3 per cent. Altogether 431,
139 head of domestic animals and
fowls have bent fowls have been enrolled by their
owners. Of that number 22,005 are purebred
sires nad the remainder are female
of various breeding but all were bred sires nun the remainder are females
of various breeding, but all were bred
to purebred males, necordting to the owners' pledges. Although the nam bet of purebreds, as noted, increased
noticeably, more scrubs also were
Anted than in any previous quarterly Hasted than In any previous quarterly
period, thus helping to accomplish one of the main objects of the campaign,
which is to grade up Inferior animals by the use of good purebred sires.
The greatest activity during The greatest activity during the
current year, so far as enrollment are concerned, has occurred in Otto With Nebraska second. In Justice
other states it may be added that se ycrab, from which only a few pledges
to use only purebred sires were re-


The Use of Scrub Animals on An
Farm is an Expensive Practice. branches of the work, particularly in the procurement and distribution purebred sires of good quality. Ken cluck and West VIrginia, Minnesota,
ct ing Wisconsin and Virginia, are launchIng aggressive drives against inferior
sires, particularly scrub bulls. quarterly period of 1921 was the patch of five emblems of recognition to far-off Guam, our Island outpost in
the Pacitte, thousands of miles beyond
Hawaii.

PERSONAL VISIT TO MARKET Grower Enabled to Acquaint Himself
With Distributors and Improve Many times a personal visit to the
market will more than repay per for the cost of the trip, says the United States Department of Agricul. tore. Points that seem trivial to the
producer often are very important to the dealer. Such a visits enables the grower to acquaint himself personally
with the distributors, to select trust worthy representatives, to learn the ditticultes of the "man at the other
end, nad to Improve his market-
ing practices.

## Home Market for Fodder.

 means a howe market for fodder, hay and grain, with no speculators on theJob to hammer down the prices, Good Green Food Crops.
The hens and click ens will need
green foil all through the summer.

SOMETHING TO THINK ABOUT

By F. A. WALKER
 THE QUESTIONER.
$W_{\text {press the tragedy }}^{\text {HEN }}$ Involved the snuffing out of the life of his mon it
intellectual character, he did it by these words, "The rest is silence."
He might have put it in another way, by saying that Hamlet would as no more questions. For that
mont disconcerting habit.
Keeping silence before a puzzling
world world, and a puzzling universe,
something that man has never something that man has never done.
The human belag who just asked The human belg who Just asked
the reason for the frost nightfall and the first appearance of the stars stood on the threshold of all modern
scientific investigation. So, if it were necessary to find entlate him from all the rest of crea-
tares, it would be sufficient to say of tires, it would be sufficient to say of
him: "He is the animal that ankh
questions."
Rudyard Kipling in a striking line
talked of "the law of the Jungle." talked of "the law of the Jungle."
The writers of fables five no pulled the long bow in attributing to
the beasts the sense of justice, even it they were making fun of society
in doling so. So the lon stands In doIng so. So the lion stands for
the maker of rules, aud the monkey or him who evades them.
So law is not peculiar to the chill oren of Adam.
omb. and to the ant political econ said King Solomon.
This ilttle creature shows- what can
done through the organized efforts of thousands of insects, whose opera-
tins could be stopped to a moment shape of a mischievous boy. So business an
elusively human
It is impossible to took at the combs the creatures who made it know geomtry and architecture. give the maximum of strength ${ }^{\text {s }}$ with the minimum of
way of material So the Brooklyn bridge, or the dome of St. Peter's.
superiority.
There is a solitary eagle to be seen
every day, soaring over a lake in westevery day, soaring over a lake in west
vern Ontario. Once he had a mate. ern Ontario. Once he had a mate.
But she disappeared one winter. Slice then the widower has never married.
The natives say that it is the habit The natives say that it is the habit
of these bras to be perpetually true So constancy is not the exclusive virtue of our race.
When Christ wanted to, express his affection for Jerusalem, he could think of nothing better to say than that he
would have gathered is people about him, as a hen gathers her chickens un-
der her wings. This timid bird will race any peril if she thinks that her
young are in danger. In the same way the bear of the
North woods, which will fy before man under ordinary circumstances,
will fight to the death if she thinks her cubs are threatened.
So family affection and So family affection and devotion do
ot set mankind apart from the rest $f$ the animal kingdom.

Only the other day a raccoon at the
Bronx zoological gardens in New York was in danger of starving to death be cause the gatekeeper who had tamed THE GIRL ON THE JOB

How to Succeed-How to Get
Ahead-How to Make Good
By JESSIE ROBERTS

$A^{\text {RE you going to be content with an }}$ any girl, or do you want a career? It he hatter, you must recogu.
portance of sound training.
Take two girls Take two girls. Both determine that
stenography is the opening they will seek. One takes the usual course and enters an office at the ordinary salary, She can do the average thing, and that
is all. The other girl $1 \mathrm{sn}^{\prime} t$ sutisfled with
The such a future. She takes Spanish and French, and studies English, both com-
mercial and cultivated. She studies merchant and cultivated. She studies
he requirements of a big position,
and works for it. She puts in an extra year of work before accepting a postton and once at work she continues her studies.
She will b. She will be one of the few thoroughty equipped women for the position
she has in mind. She will get that po-
sition in the. And she will be matsitton in the. And she will be mak-
ing two or three times what her friend
and petted him bad been sent to the
hospital. The animal would not take
fond food from a stranger.
So fidelity and gratitude are not con mIned to the lords of creation.
But there ts no reason to that the beasts, of the efungle that have the tr hunting lawn, or the anta
that lay up their store or meat that lay up their store for winter, or
the bees that know practices the bees that know practical geome-
try, or the eagle that mourns his dead
wife try, or the eagle that mourns his dee
wife forever, or the hen that protect her chickens, or the bear that is fear
lens of rifles, or the raccoon the ens of rifles, or the raccoon that
faithful to his master, ever asked questions about the why and where fore of thing.
On the other hand, from the dawn
of history, we find man worrying over
the riddle of the rldilie of the universe. This too beginning of things he felt that be would never be able to solve it.
So he invented language to convey his
alphaestions to his neighbors and children. He invented mathematics in in
order to complete order to compute the motions of the
stars. By all his questioning he has sue
ceded in pushing back ceded in pushing back the curtain
that hangs around his universe. Yet he knows perfectly well that In spite
of all that his Newtons, Darwin, Elf of all that his Newtons, Darwins, Elm-
steins and Curies may do, what Hersees ane
bert Spencer called "the unknowable"
will always elude bim. will always elude him.
But as long as he
But as long as he follows the gleam
he will be man, as God mad


LYRICS OF LIFE
by douglas malloch

GEE AND HAW
$\mathbf{A}^{\text {FELLAAH had a pair of mules }}$ That knew no laws and knew no But geed for haw and hawed for gee And went contrary generls es you ever see. It both had geed when it was haw. it would of worked out party good, If once the thing was understood And they done what you thought they

But not these two. If old July,
When you yelled "gee," to gee would Old January, 'tother one, Observing' what July had done,
Would start to hawing' on the run. So gee and haw and haw and gee, They went through life, and kicked
Thimultan'ously, and done less work and done more hurt gentes, I assert
And rIve seen folks Just ike them
Who wed,
Who didn't know you had to wear The marriage collar fair and square ne nt have haw and one
To cant have haw and one have gee:
ger haw you must agree And then go forward, gee or haw
Accordingly, without no jawAnd that's good sense, and that's good law. (Copyright.

