"FARMERS' ROADS." Matter of mportance
TILLERS of thes solf.

Unted States Department of $A_{g}$
culture Takes it $U_{p} \rightarrow$ Maceadam and Telford Systems-3todel
North Carollina Ronds.

$T$HR United States Departivent
of Agriculture bus taken up
 of the department, believes that furm-
cra can build good ronds without im-
res porerishing themselves: On this nub-
eet Engineer Stone anys: "In the first pince the road thant will
beest nitit the needs of the farmer must not be too costly; in the second place
it must beof the very best kind, for the farmer thonld be able to do hin
heasy hauling over it when hif telds are too wet to work and his teams are
free. The road that would seem to
fill the farmer's need, all things consioered, is a solid, well-beded stone
rood, of narrow as to be ooly a singie
track, but having au oerth track along.
side "A fine, dry, mmooth airt track is
the perfection of roads; it is eany on
 none and requires less snow to manko
nleighing nad where such $n$ roodd has travel in wet weather it will suffer "The stone road, on the other hand, nnd the chippping of the of horeses calks
in dry weather more than in wet. It it can be suved this went for an arer-
nge of erix months in enel year, so
nuch will be clear "The questions raised regnrding this
method of construction are: Can the junotions of the earth and stono see-
tions of the road be kept even so as
not to have n jog in passing from one to the other, and can the mesting nud
pasking of loaded teams be provided
for Mr. Stone cited the condition of the
Canandaigua ( $\mathbf{N}$. Y.) ronds ns evidence that there is no. sign of division be.
tween the earth and stone, and aulded that those who use these roads say that
no difliculty is found in the of teams, rince practically no two
teams ever turn ont at exactly the The Leange of American Wheelmen
has taken up the cause of good roads and men who are aceustomed to feel

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and National politios. What bioyole
ridera are doing at prese ridera are doing at present was done
by the horoneless vehicle men of Eng
and in 1898 . hand in 1831, when their agitation re mittee of the Houne of Commons it inquired into and to report upon the
proportion of tolls which ought to be imposed apon conches and other vehicles propelied
turnpupile roads.
Is
It Was jubt about this time that
Jomes Macham, Road Surveyor, and
Thomas Tollord Thoman Telford, President of the In-
Atitation of Oivil Engineers, with their
titerent terserents, were engaged in a contrding the relative merit
ver Up "Mricadam" and "Tollord" roadse Wero the remminas of the old Roman
roade, bnt Macainm and Tolford began an ern of road building, eanh at af-
er hie own kind, which brought Eng. lith rondo to a high stato of develop-
licht and mado ment and mado those two engineers
famouas as the orignators of tho two
eystems which to diay bear theirnames.


The mac
graded mand rollen for for its foundation.
The the earth Sraded and roinen for its foundation.
The prinoiplen lasid down by Mandum
were an follows: It is the nutural soil were as follows: it is the natural soil
Fhithroally nupports the weight of trav. it while it is preeorved in a dry state
it will anry ouy weight without sink 50 made quite dry and a covering as mutt thenen be placed ovor in to posible pre-
verve it in that dry state. That the uileted by the ginenould only be reg. aposecravy to form oudy of material
imporvious

 Cometion oh on comploted, Tho errith



## and and 



Second ז.oor Thut hone monta cort thont sizge nize of


 at, wanld be bount sz20.

a petitiergid curiostry.

The Jopanees are a fan losing peo.
 Hom Japan thlito on quot rooser ho anis thius in tho thepe otat aive, , iby.


oug and thought he was some pump
ing.' Novertheless, ho was a framd, snare and delusion. He stratted about
with the aete complacent tir of a peas
coek, notwithstanding that he mast have been aware of the fact that his
ail was composed of planes begged,
borrowed or stolen from the candalap. pendages of other roosters. That tail
certainly
was a
a marvel of
ingonuity. The feathera were so oleverly joined exoept on the minutest of serntiny.
Yet the owner of the bird could take.
off and put on that wonderful tail of and put on that wonderful tail
whenever it pleased bim to do so."-
Peiled

## The Largest Dam.

The largest dammed body of wator
in the world will be seaured by the
uilding of a dam at Cloquet, Minn.,
 and eighty feet high, by which bong
wator will be extended sixty miles.... Carrent Literature.

Great Botanic Garden


 randmammarn thera tho fashifios of of the elaborate mode is nito ar return to


 reign of the hair dreneer will and tho Speaking of the new coifures,
 only necessory; for morning it in in in.
dispensable. For day wear the knot
is raized higho is raied higher on the head than hat year, white for evening wear it in
naised quite up on the top of the hend. In the puite prety on deing top of of the hend. daytime
coifraro kiven abovo the bnir is waifura given above the bnir iandimply
waved ail the hean and irawn
back so that it forms bands to back so that it forma hande at the
sides. At the bnek it in dramn loosely
into a knot well up on the head, whete into a knot well up on the head, whero
it it seonred by a handeome tortoine
shell comat.





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| :--- |
| femm |



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 ${ }_{i}$ in $3: y$
azcomiso wal

The stylish waist depietod in the
second lhrge illustration is one of the senson's novelties, its soft fullanss and
handsome decoration makking it nuusually attraotive and becoming, Eoru
linen batiste is the material repre sented, made up over green taffeta
linings and deoorated with bands batiste embroidery and green satin
ribbon. The fall fronts and back are joined in shoulder aeams, and gath-
ered in several rows of ahirring around the neek and at the lower edges in cen.
tre. A full plaited basque of the ming is sewed to the lower


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elaborato dinner or theatre party in




White straws with luace The new ribbons are wonderfal in
oloring and diversity of patterna. Oo
black, for po

