## Herty And The Pines

Nearly，or quite thirty years aso，ocoupy，bat the long－teat vakiety． Charles motmes Herty inverited the rutpertine cup which elfintiated the necessity for＂Woxitit＂the piphes thevr－
selves．Trite friveintion came too late＂to have ahs effeot tepon the pine fenents of North Carolima，In Georgia，A部bamit， saw mill followed too olcsely after thie torpentine tor the Invention to have much effect in those states in pireservinio the long aleaf phites．
Quite teceritly，the same tentremat has matte a aiscovery，that enables inim to leciare that the foung long－feat phines making．The discovery，proved by chemical analysis，is that the healtity or uninjured Fong－Teaf pine has no tur－ pentine in ft while growing．The tir－ pentine is a remealal preparation on the patt of the tree to cure injurles．Ae condingly，no more turpentine if it than pine hexs no more turpentine in it than in it that proceeds to accomulate at the point of fracture of a bone．

Giveen Pinés For Papper－Waking Prof．Herty，in accordatice with lifs inscovery，adwisess that the fong tieat
pines must be used immediately aiter pines must be used immediately arter pines，stall full of sap，would undertake so lont as this sap lasts，to heal what they do not know to be fatal Injurfes． Thus pines alowed to dry ont，accord－ produced consífenable turpentine duiring the dying procses，and thus have unift－ ted themselves for use in making paper． Also，Mr．Herty discovers that the pines are considerably advanced in growth be－
fore they have any great amount of heart wood，which the scientist seeme to consferer unfit for paper－making．Ac－ cordingly，young loing－teat pines only can oe used for putp weod，arid must be so
used inimediately atter they have ween felled．
The Origin of the Lionglkeaftrowe For many yearts，the editor of the State＇s Voice has been interested in the the pithe trett，the poing－strawed， Reaved rimots them，the thways that 130 数 in his own－countity a mong the iongsiear phes He recalls now
 in the mountainvens bection of Greetir－
ville county， S ．Cor two years and having ariven down the ridge road through clinton，Leturens，and Nembetry
and aerous，the satuida to the it and across the flatuda to the it int whe leaf plines as the ctimbed the nim torim the Saluta

The Prinfoval Pmes
Seareely a man Iving fn Nerth Glavo
lina has ever seen the ptres in their lina has ever seen the ptres in thetr
glory in this state．The writer had the privilege of reaching Loulsiana th the ，see the woods in their pristine gtam＝ man were fast making a barren of the woods and it is presumaible that the ed by this time．But 20 years complet－ were untouched areas where one might iook across the woods，anhtndefed by pines cut off his view．Thoseles of the tive are eastern enabled the writer to envis－ son saw it，or as＂Horse Shoe Robin－ state，as recounted in that once famous Short－Leaf a Late Comer
With the passing of the long－leat pirre in eastern Carolina the short－leat varie－ the sandhill scetions whete there wers might jpdge，on viewing the landscape now，that they were the primeval va－
riety．But all the efrcumstances indi－ cate that they are invaiers of a a field long pre－empted by the long－leal varie－
ty，When the short－leaf varilety reached the long－leap beft an the ary lands，
upon which omiy the long－teá win grow， had been pre－empted ty the fifrst－comer The interloping short－leaf set sentinels opportunity．It came mapshes，blding their orn out，and unfenced ．Frome cleared waiting，but thenced．From the long－ swamp，cant vigorbus，sentriel in the
 ＂old－fferd＂phres．that ff the terlice thad been kept after evativation or the
field had ceased the interloper didn＇t
occupy，but the long－teat vakiet
A Notable Illustration
 ＊ety of ipine that should octingy the wide．Both wert：wor owit．ithe wide an Its，fence；the other retained fite．stan cotmier Aéla had a，magnificent stand of rong－litat pine；the latter a thiteky set ed the two vartetres，wit the twothwith course ahteght almost have been deter－ miméa by the wid．
two ikinds of wintes．

> Kinds of spines. The Kay to the Phenomenon Naturre had fown seeds or both warte tles son both feids，It Is naturual to das． aten the long－leaf mast that fell in the whfenced fleld，or mooted arp latibly in the phines，for the thog rellitives stilie of the long－leaf＇s roots．The ishort－leaf mavit pocuplea，for it is too little to be easily
or greatly Telisked by fioss． the fenced＂fiet，the more visorous fote． ang of thong－leat，evidentry，overcame linigs．

Whence The First Seediling
It is interesting to speeulate apon the
source of the first seeding of the Yong－ leat pine．The coastal velt，the habitat of the tree，is feclared by gedogists to on one of the latest sections of Amrerica to rise above the sea．The red hills of Chatham seem to have stood out afes before the sand hils of．western Har－ sea beacties．When the coastal beft did become dry land there was no Moing－leate
pine to the，west toura to thatith tho
 long＇leaf forestis．Fet the lofushleat osinte and occupied before the short－leal could get set From the hill iands to the west－ can thaster the short－reat，as fincate by the two fielas mentionted theve．But
 earter，it woul have the loug－telaf to get a firvig foethold． ar the blatt－lear pine occuples both wet seenimy mive proceeded from the weith ward；the long－feat from the eawewturd． Whien they thet，the thtientiltell cebt still proceed to octapy qhe watboks the
 Tr che cimong the thardwoodl forests ear whis already established．NFt onl
 the zeed that minght drift anto＇the spre occupted territony．Avecondingly，the
webtward twoundary of the Jong foat plais weft afmost neeessarily oo－inclües whth the bopdefr of the coostal plaing．

Wev pousth of the tivite
Ing；so is a tat 10 g or a＂novtwod knot．Onty fire will destroy these．But the fact Tointed out by Prof．Herty＇s
diseover＇y．What there is no turpentine in diseoverry，that there is no turpentine in heäthy tree pernitted such vigorous phnes in the early days as were over whelmed by storms or stricken by Hifit wing to rot as read if the tree as contaln tur pentine enough to preserve it against deeay，the fires of the centuries sinally left no vestige of it．As the trees grew
only on dry land，there was little oppor－ tunity for them to become petriffed or covered with soil so as to bo protected
against fire．However，the writer ded against fire．Fowever，the whiter dert－ nitely recans a fat pine og discovered when a ditch was being cut．This would indicate that there was a long succes－ sion of pines，for it required many cen－
turies，presumably，to build up that depth of soil tin the creek bottom，a soli
consistang wholly of ecayed vegetation． The log lay upon the white sand under－ lying the muck，and may haye grown lown the valey by waters before th down the valey by waters before the growth had got set and be gun its work of muck bumding．
The mature pine，like the mature cedar，has very，little sap．One cani toink nto Pittsboro dnd tell at a glance which were practically，no longer growing and which were of vigorous growth．Some very small poles are nearly atl red Heart wood，Whith scarcely a naifinch thick－ aress of the white sap wood，conrens are early all sap．Similarly whth the pines．


## The Myotery Of Wiregrass

By＂Wiregrais＂whe muean the surssoeke
of the coastal beit，and not inevmuda gross，as that zrass is
named in North Carolina．
Wiretriss Lake Wivehizidek

F Uliregrass seem to be juke hetthise
 confident that the naber suw y yoditg heves that every butio connaensy the－
 When a whebrass theot is qhared aind the thithevat taindecitsivit the grass one aestloyea，there vis tib tmore wiregrass
 but out it braved win the root olump， out out it comes again and by the ios－


 whald be burned ort in the whiter wat the wiregvass would shoot op tits tender
straids，upon which catitle conld feed strands，upon which catitle could feed
till it grew tough，in accoid With its till it grew tough，In alecoid with its appropifite natire wire grass．
The wirter as oonifucerit that a wift to the old Mruckhom catin in Sampsion would weveal the very mance clusters oo wirgerass that he knetw as a Pbay，thand
without noticeable fincreae in size－these and no others．An ant colowy to and no others．An ant colony may de－ troy a tussock of has ane maj dug up and lestrojed．But，＂as a gen ral condifion，an uncieared prece col dregrass woods of with grasis ithat the upon it before the Confederate war，and erhaps，a thousand years ago．
wThe Devils Trampling Ground
In southwestern chatfram is what is known as the devil＇s stamping grouno r natios of sfmifar mport．There is a een informed is the coastal thelt x wit grass grownig on each side of it but no－ where else within or without the ofrcte enclosed by the path．This condition seems to have existed from tiries im－ nemorrial．
The writer has concelved－the dircle to be a relict of Indian days．It is probably place of former religious rites nand he wiregrass clusters hedging eain stde of the path have formed as definite and imrost as permanent a memorial or the days of the rites as ac the great stones at Stonehenge，England，of the bloom－ the writer has still falled to Amakre the writer has still falled to make a
long contemplated visit to the spot）， is presumable that the Indians dut up voods onfy a few mines distant，in noote coovity，sha lewansplatisted thiom bout thetrycircte．
The faet that there sare no new pllonts
cle of the antss，liustly rombinees ate
 the ticet that there are no new．phitate




 Wholuction，we shoutite berglank to ：He hiorined to thieccontinuty．

## Noung ofinturw evonveluris neminvo rite MAN



 Caromians gratid ota man，Capt．8．\％


 to Turnish as wila doberwespertesitions ite his wheins．At $\varphi 2$ he geling good tor ta hundred．His Eiticle follows：
Dear Mr．Petenson：
Prease pet the call your tattention an

 rties．
治 80
IA ourmmitity ithas ide wiank，the peotit doposit thetr mooney in the It eotosets．Twe moiney of the community is locked as． and may all be expended in paying bome aebt the bank owes in Nein Yobk，eity， white the reason tor authoriting thite batk was that it minght serve the cont－ mivitity．

The money in its vaults was put theis for their own ise．When a bank olosets cheres ehoutd be alten，by aet of the cien－ pon the moiney ramstining in the vaits apon the money remaining in the vautios requirred to tit en epartint should wo requirea to put an oficer in charge，whis
winh ten adas aflould disernete that cath amon aly thie stockholdens（protapty cash amosg the stockholens（prosapis Besides that matter of the protection of Besides that matter of the protection depositors，I would like to see the writ
sentence of Section－，of Artide in on the Constitution changea by stritimg out the word＂onily，and at the end of whe sentence adding the worasi：land such otrier presentmen
If we had the whipping post，masy ot the horrible crimes that now diegraoe our state would oease；men and bosis woutd be deterred from those crtines． Agam，I shound thes to see every man whioit a fob stattea to work waking his own living on larms．
his own lvang on zarms，
Antetgh，Dec． 30,4922 ．

