## WOOD COLLECTIONS.

An interesting and useful collection for a farmer's boy to make is one of woods. The specimens should bo of convenient size and length ; three or four inches long will inswer ; they, like lumber, are best cut im: winter, and should be placed under cover
to seisou ; they should bo so cit as to show to seasou, they should be so cut as to show
the different suifaces of thic wood. The end of a limb of most of our Northerrs trees and slurubs whon cut down shows a series


## Fis. 1.

of rings, one of which is formed each year of growth. When cut lengthwise, whith is called- "the grain", of the wood is shown. called. "the gran." of the wood is shown,
A specimen of this kind shows the bark; A specimen of this kind shows the bark,
ind the chatacter of the wood just bencath iand bue chatacter of the wood just bencathy
the biuk. With very line and slarip sitw jou can, after sonio practiee, make crosssections that will show the chanactivistic appeatunce of the "eme of the wood," -as workers in wood call it.

## mountring mie sections.

Sections of word miy be mounted for a collection in this method. The sections are matle as thin as possible with a vory fine siaw. A leaf of cardbond is folded in the centre, as in fiscure 1 , and an oval opening is matlo in this, as in figme 2. Over this opening the section of wood is glued (figure 1.), which shows on the right site, is in figure 2, upon this sille in label is placed. The shects are phaced in a case to preserve them from injury ind dust.
With sections mounted in this maner, the $\square$ stiructure of the wood
$\begin{aligned} & \text { cimbe readily eximnined } \\ & \text { with in simplo micro- } \\ & \text { werpe. Some of our }\end{aligned}$ shrubshave wood which, though small, is yery tine-grained, mid mikes very pretty ithicles of
turnory. I once siny in turnery. I ouco satr it
collection of woods in Hie form of "jack:Hinuws." A gentlemian
of my acequintince, skilled in whittling, made a beautiful set of jack-straws, cach of a different hind of wood; he did not contine himself to mative wools, mand the collection was curious sather
than instractive. Those of you who are than instructive. Those of you who are
ohd enough to work with a buthe should cut tho stoms of viurious shrubs ind lity them by to season. The varions Dog-woods, the
Liturel (Kelmier), Holly, and others, make pretty materind for hamdes to small tools innel turned work.-American Ayricullerist.

## NOVEL USEES OF PAPER.

There are few things that cannot now be made out of pipher. Its maptability is astonishing, and tho wildest sipeculations as to its future are excusible when we reHect upon tha present uses of this material. As the delieate substance can bo made to serve fur steel or iron, it is not difficult to understind how pipor is for many purposes now taking tic place of wood. Paper of different thickinesses, and pasteboard made of white noss have already been shown, the lattor even in sheets three-guarters of an inclı thick. It is as hardins wood, It has
cin be easily painted and polislied. all the good' cualitics, but none of the dofects of wood. The pasteborted cin conse: quently be used for door and window quently bo used for door arnents, and all frimes, architectur
kinds of furniture.
Paper froin strong fibres, such as liney, call, in fact, be compressed into ab substinde so hard that it almost camot be scuatched. As houses have been mude of this novel:
building material, so almost everything re: quisite to complete and furnish a residenco lins sinco been manufacturcd of paper: After the Brestiut tireproof chimnoy, it is quite possible, for instince, that cooking or
hautinir stoves can bemade of similia mir-
terials. These paper stoves are annealed- | than netal, theso rails may be carried that is, painted over wilh a composition and laid at far less cost, and they will which becomes part of the puper, and is doubtless diminish oscillition and wear and fireproof. It is said to be impiossible to burn them out, and they are much cheaper than iron stöves. Bath-tubs and pots are made in the sime mamer by compressing the puper mide of linen fibres, and amoalfor ever, und we wre assure Placed on thio fire, they will not burn up; and it is almost impossible to break or injure them. Our rooms cin bo floored with this wonderfullyacoumnolating material. It may here be mentioned that cracks in floors, around tho skiating-board. or other parts of a
room, may he naitly amd permanently filied by thoroughly soaking nowspapers in paste made of ono pound of flour, thireo quarts of water, and a tablesploonful of illum thoroughly boiled ind mixed. The mixture will be alout as thick as putty, and may be forced into the cricks with it case-knifo. It will harden like papiermache.
Drawiug-rooms can bo set of by handsome pianos manufiactured from paper-i French invention. A beautiful musical instrument of this kinid has hately been an object of groat curiosity to the comnoisseurs caso is made of compressed priper, to which is given a hard surface and a cream-white brilliant polish. The legs and sides are ornumented with arabestues and flomal dosigns: The exterior and as much of the interior as cun be seen when tho instrument is open, are covered with wreaths and modatlions painted in mimature by somo of the lealing artists of Paris. Tho tono of this instrument, is said to be of oxcellent quality, though not loud. The broken, alternating chanacter of piamo masic is replaced by a rich, full, continuous woil of sound, rescmbling somowhit that of the organ. Only two of those instruments tion ; the other: has been sold to tha Duke of Devonshire
Paper plates, introduced by an ingonious restanrutert of Berlin, can now be used. Breal and butter, cakes, and similar articles were sorved by him on it pretty papior-mache plate, lawing it border in relief, and resembling porcolin. 'lhey are cherp and Even kinives aind forks maty now, we are told, bo mado of sed for any practical purpose sed for any practica parpose,
ike steel ones. The househod autlory, it misy be here nountioned cuthery, it mity be here mentioned can be well preservect in wripped ap in paper prepmed from
zokerit. This waxed paper is zokerit. This waxed paper is wrilphing hardware. Cindios, ish amd butter, and a score of other articles, are also thus wrapped, and. sived from injury hrough dimp.
Our houschold may also be supplied with the parper bottles now - made on a large scale in Germany and Austrin. The payer is coited on both sides with and alum. Aftor drying, the and alum. Aftor drying, the
leaves aro placed over ench other, leaves are placedover ench other, These bottles are made in two pieces, which are afterward joined. Neither water nor alcolol las any action on such bottles,
and it is thought that they will prove of groatt valuo to trivellers, is there is little fear of breakige. Our sloeping apartments cim be novided with papor bed-clothes. curtains and bed stends.. The lattor pieces of furniture look boaviful, and are declared to be everlasting. They aro made of slips of paper, inistond of paper riugs, is, in the ease of mathy whees, bure mentioned in the puper, which wheels can, now
iun on lails of the sime materia, somo neew pirticulars of teria, somo new pritucular of Iliese, it is stated, cun be pro-duced-by aneAmericinn company in Russin- it athird of the cost of stecl rails; ind are extromely
durible. Being auch lighter

A finger's breadth is equal to one inch.
$A$ shekel of silver was about fifty cents.
A shokel of crold wiss $\$ 8$.
A talent of silver was $\$ 538.30$.
A talent of gold was $\$ 13,809$.
A pieco of silver, or a pemy, was thirteen ents.
A farthing was three cents.
A mito was less than it quarter of a cent.
A gerall was one cent.
An ephalh or batil contains seven gallons nd five pints.
A hin was ono gallon and two pints.
A firkin was seven pints.


A homer was six 1 ints.
A calb was three pints.
PILRASES THH GIRLS MUST jeschinv.
The list of wrords, $]$ harases and expresions to be avoided by yomme lidies of Wellesley College includes tho following: "I guess so" for I suppeso so, or I hink so.
"Fix things," for aryage things, or pre"uc things.
The use of "ride" and "clrive" interchangeably.
"Real gool" or "real nice" for very ood or reilly nice.
"I have studied sone," for studied somewhiat, on "I have nut stadied any," for not studicel at all.
"Not as I know," for not that I know:
"lly m experiment," for mako an. experiment.
"Ind rather," for would rather, and
"had bettor," for would better.
"Right awiay," for inmediately or now: "Well jostod,", for well informed.
"Wry, and do," for try to do, or "try nd ro," for thy to go.
"It looks good cno "It looks grood cnough," for it looks well enough, or "does it look 'good enough?" for does it look woll enough?
"Somebody olse's" for somebody's else.
-Philadelphia I'ines.
"Timi Longbic I Live, the move Tint certitin that the great difference betweon men, between the fecble ind the powerful, the groat and the insignificent, is energy the gincible determination, a purposo once
ind fixed, and then death or victory."-Sir Irowell Buston:

Evany Sonnow, overy smart That the etemal Father's heart Hath appointed me of yore, As my lifo llows on, I'Il talke Calmily, gladly, for his silke.

