Wood Piercing Insects and Birds.

In the fifth report of the United States Entomological Commission, by Dr. A. S. Packard, may be found a full description of most of our for-est pests. More recently the subject was treated by Prof. A. D. Hopkins, **Bulletin** is: entomologist of the West Virginia Agricultural Experiment Station, in before being converted into lumber, the official bulletins for last January and from all cut between April 1 and February. Considerable time and October, unless they can be made into lumber immediately after was given to discussing wood-pierc-ing insects and birds during the scientific meetings in Brooklyn in August; both in the botanical section the trees are felled." of the A. A. A. S. and in the American Forestry Association, in which Mr. Hopkins, Hon. G. W. Minier, Major Jed Hotchkiss, Hon. B. E. Fernow, and others participated. What is now attempted is merely to put in a popular form some of these scientific facts and conclusions.

deterioration. Every thoughtful person must feel Among other methods that have a degree of alarm at the rapid disapbeen suggested is the fostering and pearance of our American forests. multiplication of friendly birds that The ax, the torch, and other foes that are known to feed on the hostile might be named, will soon disrobe our hills and compel costly expediinsects. These allies are especially valuable in warding off those forest ents to be resorted to in order to replace what is being so recklessly de-stroyed. We should welcome any pests that are known to attack growing trees. No one can doubt that the woodpeckers, for instance, obtain information that will help us to maina large share of their food from the tain our natural forests, or to plant insect world. But, on the other hand, successfully cultivated groves, or that will augment the utility, beauty or value of our existing woods. Beetles it is asserted that the woodpeckers fail to discriminate between pernicious insects and their parasites. It and grubs may not make the sensahas been determined that the Clerid tion caused by a forest conflagration, beetle is the worst enemy of the nor do they endanger human life. Yet the reports show that these minor European bark beetles, and also that the woodpecker is the greatest foe of causes destroy annually many million dollars' worth of valuable trees and the friendly Clerid. But, after all, lumber. For instance, only four the conviction is firm in our minds that the birds are among our best years ago, the pine bark beetle mvaded the pine lands of Virginia, friends as insect destroyers, and ought and the result now is that hundreds accordingly to share our protection. of thousands of acres of forest are Their mission in the economy of killed as effectually as if it had been nature is to thin the ranks of a vast done by a conflagration. Similar army by which, without their aid, we devastations are reported from por-tions of New York, New England, should be overwhelmed, and our forests would be hopelessly ruined. Some highly suggestive facts have and the Maritime Provinces. It is high time for us to pay attention to been brought to light by recent inveswood-boring insects and their ene- tigations as to the conditions of wood

resulting from the work done by the Columbian timber beetle. It seems mies. There is a difference in the habits that this insect prefers to attack the healthy sap wood of living trees, and methods of these insects : some attacking the healthy wood of thrifty trees, others the substance of injured where it excavates its galleries and trees, and others, again, only dead develops its brood without affecting wood, or logs and stumps. The sap wood alone is perforated by certain species, while others pierce the sound heart of the tree. The wormholes est. The wound made stains the vary in diameter from the one-hunwood above and below it. In white dredth of an inch to an inch or more, oak the stain extends only a few and in length from half an inch to inches, while in tulip trees the stain many feet. In many cases they are may be several feet in length. The subsequently enlarged by wood ants, stained wood is not unsound, nor is its quality impaired even for a century or by the process of natural decay. fifty per cent. less. Minute perforations called "pin or more. The stained is caused by a holes" are often found in otherwise colored liquid proceeding from the wound made by the beetle, and is fully sound oak and chestnut wood, which are a serious injury to square tim-bers, planks, staves and headings. effected within twelve months. Singularly the result does not follow the wounding of dying trees, even when their wood is sound; which shows these absolutely necessary articles to These are made by larvæ armed with horny gouges, the young of certain winged beetles. They piece through to the heart wood, while other kinds motes the spread of the coloring stop in the sap wood. The latter are matter. usually the adults, however, instead The observations made by Mr. the demand for our meats, flour and abundant bearers, are grown with little Hopkins as to the habits of the grain is the largest. The protectionof the young, the tiny beetles burwoodpecker, commonly called the sap- ists may ask how foreign trade can rowing nests, or even extensive galsucker (Picus pubescens), have con- be stimulated and home woolen manleries, for the purpose of depositing their eggs. The brood remains imvinced him that he pecks the bark ufacture enlarged at the same time altogether for the sap. The pune- The answer is that consumption will prisoned till matured, when it tures thus made at different stages of increase with great rapidity. Among as a rule, the richer the so's and the better the cultivation the neavier the crop and the emerges to repeat the work of dethe tree's growth correspond to the three-fourths of our people far less struction on new material. How of good woolen clothing, carpets and succession of elevations and depresgreat that destructive work is in the aggregate it is impossible now to say. sions visible in the annual layers of blankets is used than the users would wood. This is the cause of the beaulike and would have if they could owing to our meager knowledge of pay for more. Enlarge their export facts. By some the depreciated tiful bird's eye poplar. If a lumbermarkets and they will enlarge the value of the annual lumber output is man wants it, let him select logs estimated at fully fifty per cent, and whose bark shows the in some cases it is said to reduce the done by the sapsucker. whose bark shows the most work home market. Our new tariff will have a good cash returns below the cost of pro-Possibly the bird's eye maple is effect on business and production. due to the same cause. At least it is duction, while others report compara-Southern and western democratic well known that the sapsucker is members have done their best, and tively slight loss from the causes have a great public good to show for indicated. extremely fond of the sap of sugar But the important and hopeful thing to be said is that, by simple their year's labor. trees, whose bark it pierces by num-Send to Washington a larger maerous rows of holes for the purpose. and comparatively inexpensive meas-A single bird has been known to jority. Confer upon the democratic party power to change specific to admake a hundred punctures in the ures, a large per cent of this immense same tree in one season. Sometimes valorem duties, so that the invenloss can be prevented. Experiments this wounding causes decay. But if tions which cheapen goods everyare being made as to the introduction of friendly parasites that shall rid our otherwise, it is possible that the healwhere may go to the benefit of the people. The only tariff which does woods of hostile insects. Suggesed cicatrices are what make the curly not require tinkering every session tions have been made as to steaming maple. The subject is certainly of the infested timber, and other direct is an ad valorem revenue tariff which sufficient interest to demand further investigation .- BY H. C. HOVEY in adjusts itself to the needs of governmodes of attack. But meanwhile ment and the conditions of produc-Scientific American. tien. We want no specific duties,

What Has Been Won offer no attractions to the invaders by

another year, owing to their changed Western democrats have told conditions. The rule as laid down wherein the tariff bill is a disappointby the West Virginia Agricultural ment. The great American privilege of letting men who do not act "Take the bark from all logs and en the square know what we think felled trees cut between October and of them has been exercised against April 1, that will have to lie more those who spoiled the house bill in than one month after the latter date

the senate. There is the difference between democrats and republicans. The McKinley bill was privately denounced by Blaine. Senator Plumb voted against it. But the voice of

It might be added that stumps, strippings, and other rubbish of the protest was instantly silenced by party machine, and the western relogging camp, or the clearing, should be burned as soon as possible, for publicans, who had been forced by the trust-bought managers to cat their words and abandon their interthe sake of the living trees in their vicinity. Adherence to these simple ests, have either said nothing since or have sworn by all that was sacred that the McKinley act was the best tariff law ever passed or proposed. rules would save our country millions of dollars' worth of timber every year, by preventing its destruction or Republicans have learned how to

give up the right of free speech for the sake of party. Democrats never have learned and never will learn to surrender a single manhood right for the sake of party and politicians. We have spoken our opinion of the senate bill's shortcomings. We

have also an opinion to the effect that our representatives and senators collectively have, at the cost of unstained labor and in the face of unnumbered difficulties, passed a bill which is so much a relief that it is a revolution.

The influences which withheld much good which elevated eivie wisdom would have bestowed were protection influences. They constituted the remaining strength of a long pampered aggregation of interests which the democratic majority in the senate was not large enough to dislodge.

The merits are the democratic part and they are many. The democratic heroes in both houses deserve the highest commendation; for every reduction was a battle with desperate and well-armed partisans of protec-

Fifty per cent. of McKinley taxes have been taken from most of the articles of common oonsumption. Woolen manufacture, which has languished in spite of almost unlimited protection; will be expanded through access to the world's wool markets. We shall have cheaper and better clothing and blankets-and we can at last get pure woolens of American manufacture. Steel and iron will preserve a healthy level of prices, instead of being the plaything of alternate scarcity and overproduction. Cotton ties and bagging will not be monopolized whenever there is a good crop of cotton. Tin plate duties are

In woolens and knit fabrics the reduction is from one hundred per cent. to an average of thirty-five per cent. This is of great significance, not only because it will cheapen

which put low grades of goods under

Where Some Rags Go.

ing to quality. There was a time when

Labor and the Sugar Trust.

dullest in the year.

is in its second year and the classes are flattering. Prof. Windsor is also President of the Windsor Scientific, Religious and

By a recent act of congress officia's of the

South Carolina is well represented in this

State is the only one with a negro represen

tative in congress, and it is hoped that he

democratic delegation.

efferts in this campaign will give her a solid

Southern Governors are much displeased

at the course of the English committee to

inves iga'e Lynchings in the South. Your Governor expressed himself very creditaby

on the que tion, while Mr. Frank Rutledge,

a'so of your State, said a few nights ago a

he "Normandie in this city that," it is the

titutions. They will find out their mistake

before many days of investigation."

Benevolent Association of America.

campaign.

The Sugar Trust was formed for the purpose of limiting production and increasing the profits of the owners of the refineries. It joined in the general pretense of protec-tionists that the tariff tax was for the benefit of labor, but its performance is more significant than its words. It began by closing down nine refineries

These refineries had a producing capacity of about 11,000 barrels a day, within 1,000 barrels of the daily product with two great Havemeyer refineries in Brooklyn, which,

working together. produce nearly twice as much as any other refibery in the country. All the men employed in these closed fuctories, in number more than those now employed by the Havemeyers, were thrown out of work. Not only that, but the falling off in the demand for labor reduced the wages paid to those who retained their em-

ployment in the refineries. The character of the work enabled the refineries to employ the cheapest kind of labor. Most of the workingmen are Poles and Hungarians; a few are Germans. They are obliged to work twelve hours a day for \$1.20. This is equal to \$1 for a day of ten hours, or 80 cents for a day of eight hours. The work is of the hardest and is done under hard conditions. The heat is terrific. ranging on the first floor up to 150 degrees, the average being 125 degrees. The men are victims of frequent prostration from heat and the ambulance service of neigh-

boring hospitals is constantly in demand. One man who jumped from the window of the Havemeyer & Elder refinery is said to have been crazed by the heat. The Sun, a Protection newspaper, on June 19, 1894. had this to say of the condition of labor in the Havemeyer & Elder refinery : The excessive heat is causing much suf-

fering among the thousands of employees in the Williamsburg sugar refineries. Already there have been many prostrations. Dur ing the corresponding hot spell last year there were, it is said, more than a thousand cases of prostration from the intense heat in the buildings. The ambulance service

became practically useless, and all that could be done was to carry the victims out of the refineries and leave them in the street to get home as best they could. Many of the victins died. There is nothing to be added to this pic-

ture. The employer of these unfortunate workingmen is the trust that begged for legislation in their name and finally pur-chased from both parties the power to limit production, to distress labor and to declare dividends of from 75 to 285 per cent. on its investment. - Ex.

Early fall is an excellent time to set or small fruit ond provide against that lack of them which we felt so keenly during the heated term. Raspberries, blackberries and cu-rants are all deservedly popular and

government occupying judiciary positions, can give their bonds through organized surety companies. This is desirable since healthy food, and they possess the great merit of requiring very little cultivation, Blackberries and raspberries may be officials will not be compelled to resort to grown on any soil except a very heavy clay or one that is liable to remain water-sonked. special friends to sign their bonds, to whom they would naturally feel under obligations. They are generally propagated by cuttings and should be planted so as to allow the roots to grow before the ground freezes. It city, but compared with some other states ts quota is not full. Much interest is manis considered beneficial to cut back the caues to within six inches of the ground ifested here in the campaign there. Senator Butler's long service in the Senate has made after planting. The earth should be preshim many friends who hope for his return sed firmly about them so that the soil and while Gov. Tillm in has followers who would roots may come into close contact. hail his coming with pleasure. The Palmette

Raspberries shou'd be set about four feet apart, and blackberries six or seven. The red varieties of raspberries are not so hardy as the black or the blackberries. All however, require to be heavily mulched with manure before winter. If manure is not accessible, an extra amount of earth should be placed about the plants, but it must be removed in the spring Red raspberries will yield excellent crops for eight vents, and fair ones for another eight, while blackberries will last even longer.

rankest piece of impudence, the most con-sumate exhibition of British gall that modern history has afforded. Such a course A raspberry bed may be formed in the fall with a little care, so as to give fruit the next year. This is accomplished by digging up plants with a quantity of earth about them and catefully resulting and is founded on ignorance of our laws and in watering them. The tops must then be shortened in and half the foliage removed The Louisana sugar planters are much frustrated over Secretary Carlisle's decision against the sugar bounty, while the con-sumers are pleased to know that the price

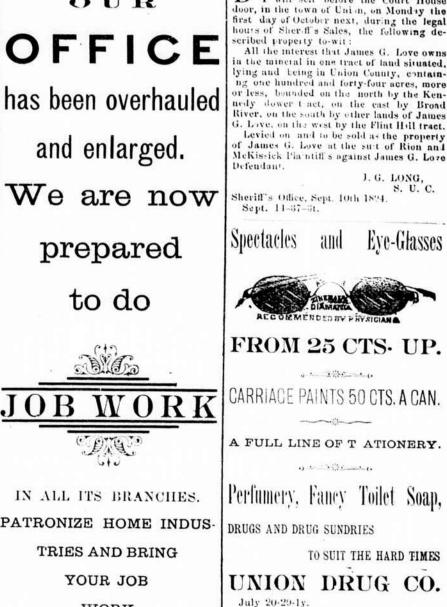
of sugar will not be materially advanced. trouble and require only to be kept free from weeds. Currants are propagated with The Sovereign Grand Lodge of Odd Fel the greate-t ease from cuttings, which should be less than a foot in length when lows has been invited to hold its next ses sion in this city, The action of the president of the Cable set. They should be inserted slanting, so that only the top bud is above the ground. Car Company of this city in refusing to They will do well on any kind of soil, but, obey the order of the commissioners to suspend the movement of Cars on labor day, during the parade, will likely cost him his larger the berries Plenty of moisture is required. The pluats need renewing every six or eight years. position. The labor unions are very pronounced in denouncing his course. Among South Carolinans visiting the city Gooseberry cuttings also root easily. 1u: the past week we are pleased to note : Wm A. Nicholson, Union ; W. C. Cleveland, Mrs. many prefer 'ayering. The goosebury is a gross feeder and requires a rich, moist loam, but net too we'. They will not stand drought or crowding. A little shade is a'so Willie C. Williams, Miss Annie Norwood, Geo. T. Barr, Greenville ; W. S. Hunter, Seneca ; Geo. T. Doughty, Chester ; L. W. essential. When grown in the full sun the White, Abbevil e. fruit is spt to mildew on the sunny side. The general cultivation is much the same as that of the currants, but more care is ro-quired. The English valie ies are much finer than the native, but are also more liable to mildew. The disease can, how-ever, be successfully kept in check by means of spray pumps and fungicides .- Exchange.

For sole by B. F. Posey and The Union

Drug Co



1F YOU WANT AN



Wm. A. Nicholson, Plaintif. A. D. Sweat and J. W. Sweat, Defendants. I above stated case by his Honor Judge R.

MASTER'S SALES.

FOR OCTOBER, 1894.

COUNTY OF UNION.

In the Court of Common Pleas.

C. Watts, I will sell at Union Courthouse, on Salesday, 1st. October 1894, during the legal hou s of sale, the following described lands to wit : All that parcel or lot of land situated in Union Coun y; State aforesaid containing one hundred and forty-three acres, more or

less, bounded by lands of T. N. Kelly, Israc Knox, East by Zack Johnson, being the tract purchase I by Edz deth T. Sweat from James Eaves.

TERMS OF SALE.

One-ha'f cash, bul: nce in one year, with interest from day of sa'e, secured by sond of the parcha-er and Mortgage of the premi-ses. C. II PEAKE, Master for Union County. Master's Office, Sep. 14, 1894.

Sep. 15 37 3t.

SHERIFF'S SALES,

FOR OCTOBER, 1894.

BY virtue of an execution to me directed, I will sell before the Court House door, in the town of Union, on Monday the first day of October next, during the legal

in the mineral in one tract of land situated, lying and being in Union County, contain-ng one hundred and forty-four acres, more or less, bounded on the north by the Kennedy dower t act, on the cast by Broad River, on the south by other lands of James G. Love, on the west by the Flint Hill tract.

July 20-29-1y. WORK **BUY BEST MATERIAL** TO **TO YOUR ADVANTAGE**

much may be done, in a preventive way, by improved methods of managing standing trees, logs and stumps, and manufactured lumber.

It seems to be generally conceded that forest beetles will not deposit their eggs on sound living trees, but only at places where a tree has in some manner been wounded. This indicates that they may be repelled from such places by suitable applications. But this is at present practicable only in groves under cultivation.

But it has also been observed, by Mr. Hopkins and others, that the beetles will not lay their eggs on dead trees, logs, or stumps from which the bark has been removed. Lumbermen know perfectly well that trees felled in certain months will lie for years without being infested by insects; while others felled at a different time of the year will be worm-eaten at ence. Usually, even quite intelligent lumbermen will attribute this remarkable difference to the mysterious influence of the moon. But the true reason, and that of which due advantage should be taken, is that while trees felled about the time when the beetles are laying their eggs are almost sure to be attacked; those what is claimed for them and the dealer felled a little later will certainly cscape for that year, and will probably r. POSEY'S prog Store,

What is Hard Wood ?

the same charges as high grades, and A recent issue of the Timberman contains the following legal decision in regard to what constitutes hard wood." A certain which keep the same tax in force for years even if invention reduces the man had a contract with a railroad company natural cost of an article to one-tenth. to deliver "hard" cord wood, and he de The next two objects of tariff reform livered poplac in part fulfillment of the conare free raw materials and ad valorem rates. The people have but tract. The roilroad company objected, but the contractor won his case in court in consequence of the judges decision that botani-cally any tree that had a leaf as distinguishone avenue to the reform-the election of democrats .- St. Louis Reed from a needle was a hard wood; regardpublic. less of what the actual texture of its fibre

might be. This is strictly in accord with other decisions based upon the technical and commercial nomenclature of the wood Housewives must often have wondered There may be no particular reason for saying that Lombardy poplar or basswood o cottonwood is a hard wood, but such it i where all the rags go to after they pass into the wagon of any one of the several commercially as decided by the courts. hundred ragmen who pass through the this new decision, based upon botanical con-siderations, is sustained, it will merely add alleys with their monotonous cries. These gatherers of old rags take them to strength to the old position. warehouses where they are bought in bulk, and then assorted by girls accord-

.... Four Big Successes.

most of the rags were sent to paper Having the needed merit to more than mills. Now a very small proportion of make good all the advertising claimed for them, the following four remeties have rags are made into paper, straw and clay reached a phenomenal sale. Dr. King's New Discovery, for consumption, Coughs and Colds, each bottle guaranteed—Electric Bitters, the great remedy for Liver, Stombeing the chief ingredients. Fine linen paper, so called, is made of rags. Ninety per cent. of the rags collected, however, go into the manufacture of "shoddy," of ach and Kidneys. Bucklen's Arnica Salve which cheap ready made clothing is the best in the world, and Dr. King's New Life Pills, which are a perfect pill. All manufactured. This stuff is now made up into the brightest and most attractive these remedies are guaranteed to do jus patterns, and can only be told when new from wool by the expert, and by experiwhose name is attached herewith will be ence with the wearer .- Clothing Man in St. Louis Globe-Democrat.



COCAINE USED IN EXTRACTING TEETH

Jan. 5-1-1y.



⁷ Dr. Miles' Nervine is sold on a positive guarantee that the first bottle will benefit. All druggists sell it at \$1,6 bottles for \$5, or it will be sent, prepaid, on receipt of price by the Dr. Miles Medical Co., Elkhart, Ind.

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Aug 24-31-owfor 3m.

