better and more convenient forms, there is no longer need of alcoholic tinetures and elixirs. Laudanum, which is a tineture of opium, might be banuhed from the shelves of every anothecary, as it is not needed. contained in certain crystalline bodies. which can be isolated, and used in minute and convenient forms, and that they can be held in aqueous solutions. Alcohol is no longer needed to hold the active principles of opium, Poruvian bark, or other indisponsable drugs. As regards the vegetable tonics so called, the best smong them is the columbo (Pader columbo), and this readily yields its bitter principle to water, as do quassia, gentian, sonna, rhubarb, and most other valuable substances A careful survey of the contents of a well appointed pharmacy leads to the conclusion that there is no one indispensable medicinal proparation which requires alcohol as a free constituent.

"PATRIT" MEDICINES.

The catalogue of modern remedies is almost oudless, and many of them hold gent physician knows that ninety percent. of these alleged remedies have little or no

WOULD CHEMICAL SCIENCE SUFFER!

The chemist, more particularly the pharmacoutical chemist, may inquire how he is to conduct his processes without alcohol. It is from the pharmacoutical laboratory we derive some of the most important substances used in medicine and the arts. Among them may be named other, chloroform, and chloral hydrate, three of the it exists, should be retained within the walls of the laboratory. In the manufacture of most of the important products in which alcohol is either directly or indirectly used, its production may be simultaneous with the production of the agent desired. In the manufacture of ether and chloroform, the apparatus for alcohol may be made a part of the devices from which the ultimate agents, other and chloroform, result. Fermentation and distillation may gallon of alcoholic poison may injure million dollars for alcohol and tobacco, be conducted at one end, and the annasthetics recursed at the other. It is true, that, in a chemical laboratory, alcohol is an agent very convenient in a thousand an agent very convenient in a thousand ways. But, if it was banished utterly, what would result? There are other their work in a shoe shop and went arises of life, against 1,580h millions and introduce—the result. Fermentation and distillation may methods of fabricating the useful products on a drunk for three days. Their absence of alcohol; but the processes would be rather inconvenient and more costly. The banishment of alcohol would not deprive us of a single one of the indispensable agents which modern civilization demands:

| The processes would be refer to the use of a single one of the indispensable agents which modern civilization demands:

| The processes would be refer to the work of 150 men. The rums workings out of the palsying power of this incubus might, with plenty of work and good wages, be able to own his house, and live in the country, with his food growing night and day around him whether times are hard or easy,—he agents which modern civilization demands: agents which modern civilization demands; neither would chemical science be retarded by its loss.

SUBSTITUTES ALREADY KNOWN.

It must be remembered that the modern science has given us glycerine, naptha, bisulphide of carbon, pyroligneous products, carbolic acid and a hundred of other men who are in active life. If we conagents, which are capable of taking the clude that about one-third of the entire ducts, carbolic acid and a hundred of other place alcohol in a very large number of population are workingmen, who must appliances and processes. The naturalist is no longer dependent upon alcohol for the preservation of his wonderful speciary or nearly three dollars a week, mens; and the artisan no longer needs. But it is probable that half of the work-alcohol to obtain convenient heat for his ing men in the country do not use intoxtools, or to facilitate his labor; cheaper and equally good substitutes have been provided. Petroleum in its refined and of the country are taxed on an average perfected condition has taken the place nearly a dollar a day for stimulants and narcotics, which do them no good, but of mixtures of alcohol and turpentine for obtaining artificial illumination; and alcohol for purposes of securing light and heat can never be again needed. It is only a quarter of a century since two million gallons of alcohol were consumed annually for illuminating purposes.

WHAT ABOUT PERPUMES.

of his products, but the question arises property, demoralizes society, increases crime, insanity, and pauperism, causes "Have we need of the perfumer ?" The man who fabricates one smell to cover up another may be a very useful artisan; but certainly he is in no sense indispending philanthropic and temperate with the care sable. Aside from his "cologue" and odorous extracts, the perfumer can dispense with alcohol, and, if its banishment should occur our good ladies would not know of the event from meeting with any unsupplied wants at the perfumers.

MEDICINAL STIMULANTS.

spirituous liquors which are known in obliged to practice self-denial, and fre- dissharged

detriment. Since the active alkaleidal commerce, very much may be said. If quently endure oppression at the hards of JUST and resincidal principle of roots, barks, all commerce, very much may be said, the rich and grasping, yet the cases of JUST and resincidal principle of roots, barks, all commerce, very much may be said, the rich and grasping, yet the cases of JUST and root for the said and root in If all the brandies, whicking wines, and those men are far worse. They cannot do and gums have been isolated, and put in If all the brandies, whiskies wines, and malt liquors which now exist were suddealy destroyed, and there could be no further production, no class but dipsomaniaca would auffer any pain or distress It is now known that the valuable nar- sometimes useful as diffusible stimulants, cotic and hypnotic principles of opium are they are oftener a bar to recuperation, no matter what may be the ailment.

In all cases of disease where an alcohohe stimulant seems to be indicated, scionce which may serve an equally useful purpose. The alcohol question as related to must take less than they carn that he may medicine may be summed up in a few words. In some cases of extreme exhauation or debility, it may be regarded as a convenient agent, if carefully employed but in no instances of disease of any form is it a medicine which might not be dispensed with, and other agents substituted

THE WRITER'S STANDFOINT.

This view of the chemical and therapuetical needs and uses of alcohol, as related to the humanfamily, is not presented from the standpoint of the temperance orater, but from that of the scientific investigator.

We have often, for runny years, taken a alcohol in some form; but every intelli- careful survey of the whole field, and speak with promeditation and knowledge. To present the subject properly, so that intrinsic value. The nestrums of the all aspects of the question may be fully quack, the bitters, chairs, cordials, ox. brought under discussion, would require, tracts, etc., nearly all contain alcohol, and as has been stated, much more space than them? this is the ingredient which aids in their is at present at command. We hope at

> [The above article is published in pam phlat form by the "Popular Science News Coy " 19 Pearl street, Boston, and will be sent free in quantities to any temperance society' for distribution. Charge made only for postage or expressage.]

Liquor and Labor.

buy him a home or a farm.

The total loss of the laborer is not men, each of whom would like to have a measured by the amount expended for these drugs, any more than the damage done by an explosion is measured by the cost of the dynamite which produces it, or the value of a life is estimated by the largely if they had anything to purchase cost of the arsenic used to destroy it. A with: and when instead of apending 1,500 million of alcoholic region man insurant million dallars for alcohol and takens.

drink falls mainly on the workingmen. Most of the drinking is done by them. If the total of 1,500 million dollars spent for atrong drink and tobacco be averaged among lifty million people, it gives about a penniless population, would be obliged thirty dollars to each person. But the to wait on him at his home, and pay him wives, sisters, daughters, little children, his own price for his work, and would be and aged people use very little of the able to do it through the prosperity which drink or tobacco. These are mostly con-would come through such a reform, sumed by the young and middle-aged earn most of the money, the average tax on each of these men for these harmful indulgences would amount to about \$150 icating drinks, or only use them in small quantities. If this be admitted, is follows that about half of the workingmon cause them great injury, unfitting them for labor, making them unakilful, and aubjecting them to accidents, injuries, diseases and dangers of many kinds; thus deteriorating their work, consuming their wages and keeping their needs on the grindstone all their days.

And those laboring men who do not indulge in any of these evil habits, are still affected by the indulgence of others, whose The perfumer employs alcohol in many intemperance deranges business, destri-ya vast expenditures for police service, riots, jaila, prisons, almehouses and hospitals; burdens the people, and loads down the dren, who forage at our back doors for their supplies, begthobread out of our children's mouths, and break our hearts with tales of woo and misery which we should nover hear were it not for this curse of intemperance.

MEDICINAL ATTRULANTS. | Wages. While laboring men in general ward, Geo. Forbes and J. F. O'Neill, \$100

As regards the medicinal value of the feel the pressure of hard times, and are and costs each; while Wm. Hayward was

as much work or as good work as subor. temperate Christian men will do. They cannot work as many hours, nor earn as much wages. They are not as desirable help, and are more likely to be dismissed when work is scarce. Hence they are for a single hour. If these beverages are likely to keep up a perpetual clamor about constitues useful as diffusible stimulants, work and wages; and are anxious to join some association where a drunkard will fare as well and get as high wages as a sobor man, and where an idler or a bungler cannot be discharged under ponalty of a strike, but must be kept in place and paid prosents other stimulants, non-alcoholio as much as far better workmen receive who may be worth twice as much, but who get more more than he earns.

Against this arrangement employers are Against this arrangement employers are sure to revolt, and such men finally strike their own level. Their condition is then most pitiable. The money which would have bought them homes has gone into the rum-sollers' till. The price of shoes and clothes for themselves and their families. has been burned up in eights or chewed up in tobacco; and they are consequently in a condition of granding poverty, wrotched-

ness, and discontent.

The cure which they propose for this condition of things is higher wages,—and that, even if the employer is already running his business at a loss to avoid closing it up and discharging his employees. Another remedy suggested is to decrease production by shortening the hours of labor. This of course would tend to raise prices and so add to the expenses of living.

But is the fact of over-production clearly catablished / More goods are made than can be sold, but are more goods made than could be sold if people were able to buy

Lot the rum and tobacco business be ex sale The whole unclean list might, with some time through another channel of advanings to mankind, be thrown to the fishes.

The ingredient which said in their sate present as communication another channel of tinguished, and there would be 1,500 million dollars more to be spont yearly for things which people are now unable to purchase. We need not then talk about over-production in the shoc business until every drunkard's wife and child has two good pairs of shoes for their bare foot. We need not shut down the cotton factories. when every drinking man is sobered off, until each one has a clean shirt to put on Sunday. We need not stop the print works on account of over-production, until overy drunkard's wife and daughter has a couple of neat print dresses. We need need not complain of over-production in ence, and the employment of sleehol is essential to their production. Alcohol is million dollars for tobacco, and 801 imillion dollars for tea, coffee, cocca, and imillion dollars for tea, coffee, cocca, and imilion person in the United States. A family up like a gentleman, and taught to behave of seven, each consuming his proportion himself like a human being. And when of these stimulants and narcotica, expends we have gone through these distressed \$210 a year for things which are worse and poterty-stricken classes, if taxes than useless to them. This money would are reduced and business brightens up a more than pay the average rent of a work- little, before we shut down the mills on ingman's house, and in ten years would account of over-production, there are buy him a home or a farm.

The total loss of the laborer is not men, each of whom would like to have a working eight hours a day, or eighteen, as he pleased; and capitalists, instead of tyrannizing over him, and taking advantage of an over-crowded labor market and a pennilese population, would be obliged

> Let working men turn their thoughts to this aubject. Let them against the rum-sellers instead of the railways; let them "boycott" the beer shops instead of the bake shops; let them combine against long hours spent in gin mills and beer gardens; let them unite against Sunday work and Sunday sprees and let them plant themselves squarely on the side of right and righteousness, of God and truth, and they will find such blessing, peace and prosperity, under the kind providence of God, as they can never expect so long as they are under the dominion of rumsellors, politicians, mon-opolists, anarchists, nihilists, strikers, lodges, agitators and demagogues of every name, classand condition.—The Christian,

2250 Mere.

THE detectives Williamson succeeded in fining three Scott Act violators to the tune of \$250 and costs.

A Berival.

Masses Dowd and Morgan have been t conducting successful temperance meetings in Dundalk, assisted by the W.C.T. C.

In Bigin County.

JOSEPH BARNES, of Fingal, was fined \$100 and costs under the Scott Act, before Police Magistrate Leonard at St. Thomas.

A Batch of Convictions.

THE cases started by the detectives Wil liamson at Woodstock resulted as follows It is this very class of working men who I'. Farrell, Jos. Scott and H. Rico were are also in the greatest trouble about their fined \$50 and costs each; Ambrose Hay-

ARRIVED FROM MONTREAL"

Five Car Loads, containing the Wholesale Bankrupt Stocks bought by Mr. Cousineau in Montreal, amounting to \$66,000, ut 49c on the dollar.

This great purchase is thrown on the market for sale here, and will be sold at a great sacrifice. Lidles of Toronto may therefore look for and fully anticipate the tireatest Bargains ever presented to them in the history of the Toronto Dry Goods Trade.

600 pcs. All-Wool French Dress Goods, to be sold at precisely half price 50 pcs. Rich Black Gross Grain Silks, which we shall run at 75c. This is a great bargain.

LADIES, Make a note of the prices. The 600 pes. French All-Wool Dress Goods will be sold as below .-

lat LOT—Regular 25c tioods for 15c.
2nd LOT—Regular 35c tioods at 20c
3rd LOT—Regular 50c tioods for 25c
88 pieces Black Merveilleux and Gros tirain Silks at 50c., regular 75c Goods
77c. Powellow Lot velleux and Gros tirain Silks at 50c., regular 75c Goods 75c., Regular \$1 Goods \$1, Regular \$1.45 Goods

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YEAR	PROFITS	ABSETS	ASSETS	01:038
Ending	Paid on Policy	Per \$100 of	l'er \$1,000 of	Accumulated
Jan. let.	No. 55,600.	Liabilition	Insurance,	Funds.
1878	#11.32 12.74	3115.88	9307 321	\$24,141,196
1879	12 74	116.06	321	Z 1,120,104
1880	13 72	118.10	331	2 .6593,196
1881	14 75	118.92	313	26, K3, 140
1882	15.85	119,32	313 314	27.0 4.884
1883	16 95	120.18	330	225,102,886
1884 1883	18.14	120 30	341	25),080,566
1885	19.38	120 70	315	29,771,230
1886	20.49	120 42	347	30,102,361
1807	22 07	120 27	0.6.4	21 441 020

Some companies retain profits for five years before declaring them, and then their agents sometimes companies retain profits for five years before declaring them, and then their agents sometimes companies such accumulated profits against the ETE'S Annual ("sah lividends, without explaining that most of those who die or drop out of such companies during the five years, receive no dividend. The ETE'S divides annually, and pays down in each, or in reduction of next premium, not in serip or bonus additions, or duo-bills, to be lest if the policy lapses.

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Year Paid	Bina Life.	Three Other Leading Co's.			Star Life.	Another Co'y.
1678 1879	9264	\$205	\$233 180	9191 204	8454	\$312
1879	283	210	160		259	710
1880	387	213	173	233	204	264
1981	343	165	177	≱ან	368	97
1882	397	100	180	237	27 2	
1843	203	173	184	244	77	100
1864	197	177	185	307	777	101
1880 1981 1882 1863 1864 1865	313	181	127	100	307	137
1886	317	106	1/1	216		1700
1467	121	156	133	1.24	296	143
	\$2,982	\$1,800	81,698	82,535	92.742	81,630

Average of the Etna Life's footings, upon the \$20,000, same age and plan Average of the Other Four Companies Better Results from the Atna's Management on similar policy in ten years

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Terento, October 27th, 1867.

W. H. ORR & SONS, Managers.

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