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# The Golden Age 

Vol. 1

## LABOR AND ECONOMICS

## The Food Supply

FCW questions are of greater human interest just now than that of food. Everybody must eat to live, and all are interested to know whether there is food enough in the world to feed its millions, and if there is how those that need it can get it.

As a whole the American crops are excellent; and in the matter of live stock we have now 4,609,000 more swine, 350,000 more milch cows and 287,000 more of other cattle than we had a year ago. Australia has a vast surplus of food; and the crops in Canada, South Africa, Argentina and in many parts. of Europe were all of generous proportions.
The great American hen continues to do her duty. Last year she prodnced, it is calculated, $23,052,000,000$ eggs. That looks like a lot of eggs; bnt it amounts to only 210 egge per year, or a little more than one every other day, for every man, women and child in the United States. Probably the poultry raisers ate some eggs which have not been counted.
It requires a great quantity of food to supply $110,000,000$ people for a year. A little while ago the Government disposed of what many people: thought was a large surplus of food, accumulated for the army; but somebody got to figuring on the total and estimated that the whole lot did not amount altogether to a day's supply per household. The Government bought this meat at wholesale and sold it at the same prices, in some instances for 50 per cent less than the carrent prices charged by dealers.
There is one article that is short, however, and that is salmon. The salmon catch, all the way from Behring Sea to the mouth of the Columbia

River, is the poorest in the history of the fishing business. In the great Fraser River, of British Columbia, the salmon pack this year was only 7,000 cases as compared with 155,700 cases in 1915. The Canadian Fish Commission believes that the salmon business has been ruined by a too efficient system of traps and seines in the Puget Sound region; that the fish have been caught before they could get to their spawning grounds, and therefore reproduction has ceased. If this is true it is a pity; for salmon is a staple article of food that will be missed.

## Chemicalized Foods

A GOOD many of the plants that were formerA ly engaged in the manufacture of alcoholic liquors are now being turned into "food factories", and we do not know whether to view. this with pleasure or with alarm. It all depends upon what the chemists connected with these plants intend to do.

If they are planning further assaults apon the life insurance company's mortality experience tables by fixing up doctored Prankfurters, cakes colored with egg-yellow made from coal tar dyes, bleached fraits, processed rancid oils, cream scoured with soda ash, corned beef and emoked ham redolent with chlorine, ice cream colored with ribbon dyes and pies made of rejuvenated decayed fraits, we can tell them now that there is plenty of this kind of material on the market and we can get along better without these things than with them.
Just recently we discovered that the Horse Did Society has a connection with a Brooklyn sausage factory, possibly the same plant, or one. of the plants, in which some 60,000 diseased
sattle were formerly turned into sausage annually, until the proprietors of the works were sent to the penitentiary. Now these diseased cattle are diverted; we do not know just what dor $\cdot \mathrm{s}$ become of them.
If the chemists would turn their attention to the needs of the human system they would do a great service to humanity. As an indication of possibilities along this line we note the familiar fact that the haman body contains some sixteen or seventeen elements; that the soil contains the same elements; and that the grain which grows on the soil contains the same elements. Yet when we make our grain into white flour we take for homan use the least nutritious portion of the grain, containing only a few of the elements, and give to the cattle the outside of the grain, the most nutritions and valuable parts, and the only ones that contain the minerals needed by the system.

Dr. Wiley, the food expert, recently told the House Committee on Agriculture that it is due to the use of white wheat bread that at the -Tt break of the war only sixty per cent of our . Jong men were found to be in proper condition for military service. The haman system is not properly nourished by white bread.

## Milk as a Food

THE chemists or somebody else have been working away at the milk question, and have discovered a method for condensing buttermilk and reducing it to a semi-solid condition where it gives promise of being of great atility in baking. It is said that this solid milk can be added to bread, producing a more healthful loaf, and one which takes a delicions brown at a comparatively low baking temperature. This lower temperature allows the retention of a larger amount of moistare.in the loaf. It looks as though this discovery might be one of considerable value.
Fo some tir:e a means has been used for converting fresin mill into a dry powder which can be shipped anjwherc and eighty per cent of the freight saved. This powder may be kept for weeks, or even for months, and with proper precantion can be remade into fresh sweet milk at the end of that time.
Vill is ideal as a food because it has all five us the elements necessary to human life and growth, fats, nitrogenous substances, sugar, minerals and vitamins or growth-factors. No
other food can take the place of milk for the human infant. Without its vitamins the growth is stanted, as is now so unhappily the case with the million or more of European babies that have never tasted milk; and there is an effect upon the eye, called dryeye, which shows the hunger of the child's system for just what the milk provides.

Becanse it is pertinent to our subject, and because it is important, we mention here that where infants of under eighteen months cannot be nursed, the best available substitute for the mother's milk is to be had by letting good fresh cow's milk stand until the richer portion has all risen to the top. To this top.milk add an equal volume of pure water, and to the mixture add one ounce of sugar of milk to each quart of mixture. After the child reaches eighteen months this preparation may gradually give way to ordinary cow's milk.

## Distribution of Food

T IS easy enough to criticize our present 1 methods of distribation, but we ought to criticize them and keep on criticizing them until we do something definite to improve a plan whereby it costs from two to ten times as mach to deliver foodstuffs to the consumer as it does to produce the food itself-a plan which has increased in "efficiency" until now every sixteen people in the country support a distribator, as against thirty-one people in 1870. Gambling in the stock markets has something to do with this inefficiency; and Congress ought to make it illegal for these gamblers' quotations to pass throagh the mails or over the wires. In one day there is more wheat sold in Chicago than comes into Chicago in an entire year; and every time it is sold there is a tax, however slight, laid on every table in the land.

Another item which enters into distribation costs and the welfare of the people is the storage of food. In August, a representative of Swift and Company informed a Congressional investigation committee that the total supply of dressed meats ready for the market on June first was sufficient to last for only ten days. But if that was the tirath on Jone first, and if the newspapers tell the truth, which is equally uncertain, then it was not true three months later; for at that time, and with men, women and children suffering for lack of food, it was estimated that there was $\$ 2,000,000,000$ worth of food
stored in New York City, not altogether in the licensed warehouses, but much of it in brewery lofts and other unlicensed places.

At that time, when the Government began to get after the hoarders and profiteers in human necessities, millions of dollars worth of foodstuffs were seized in a St. Lonis warehouse on the charge that they had veen held over three months with the object of increasing the price, ten million eggs were seized in Detroit, and there were like seizures in Buffalo and elsewhere. At that time the charge was also made that warelousemen were storing food in one city as long as the law permits, and then moving it to another city and re-entering it to storage without keeping any record of the time when it was first stored.
Because of their power, the five great packers, Swift, Armour, Wilson, Morris and Cadahy, upon whom the nation specially leaned in war time to supply food to the army, are now the special ohjects of suspicion in the matter -of profiteering. These five packers own ninety per cent of all the refrigerator cars in the country. In 1916 they slaughtered eighty-two per cent of all the cattle, handled half the poultry, eggs and cheese, and are rapidly gaining control of all foods for man and beast. They are also making large inroads into the marketing of building material and fuel commodities.
These five packers have gained control of 762 nther companies. They now manufacture or deal in 775 commodities and dominate the food supply of the world. The recent boost in shoe prices is traceable to them in this way: Controlling the hide supply they took excessive profits and passed the increase on to the manufacturer, who added something more for himself, and the wholesaler and retailer followed the same course. These packers quickly dominate any field they enter. In 1917 Armour first undertook the $s: \quad$ : $: 1,3$; in that same year he became the griatioti zice merchant in the world, his sales amounting to more than $16,000,000$ pounds. Immediately, the wholesale price of rice increased eighty-five per cent.

The big packers control the stockyards to which the nation's meat supply is shipped, control the commission men who are the producers' only representatives at the yards, discriminate against independent packers who would use the gards, prevent new packers from
getting into business, and restrict the meat supply of the nation by so manipulating the livestock prices as to disconrage the producers. A favorite way to do this is to boost the market antil an immense quantity of stock is known to be on cars on the way to the yards, and then to suddenly drop the prices so that on arrival at destination the shipper receives far less than the stock quotations had led him to expect. The financial power of these packers is so great that no competitor can hope to succeed if they use their power to break down his credit.

## Oddities in Food

$T$ HE widespread use of the automobile has so reduced the demand for horses, and the growers find them so unprofitable, that the Government has sanctioned the sale of horse meat, with a view to killing off the surplus supply. It also hopes to add to the leather supply by this means. All horse meat or horse meat products must be labelled as such.
The New York State Department of Farms and Markets has issued an appeal to the people of New York City to learn to eat rabbits, calling attention to the fact that at prevailing meat prices rabbits are cheap and wholesome food, and are considered a great delicacy in many parts of Europe.
The United States Department of Agricalture has been setting forth the virtues and advantages of the goat. The goat will eat anything, stay anywhere and submit to any kind of treatment. In return it gives a rich, creamy milk that is especially good for babies and can be made up into seventeen different kirds of cheese. Roasted kid is considered to be one of the most delectable of meats.
In the foregoing, the Government has made efforts to assist the common people in providing a meat supply at prices within their means, and in this has done a good work. In times of high prices for meats we might remember the conditions in the siege of Samaria when "an ass's head was sold for fourscore pieces of silver" (2 Kings $6: 25$ ) and the terrible conditions which prevailed then and at the time of the siege of Jerusalem in A. D. 70, when women even ate their own children.
It is a comfort to know that these conditions of scarcity are all temporary and will give way to a better time when there will be plenty for all.
"Fear not, 0 land; be glad and rejoice : for the Lord will do great things. Be not afraid [of food shortage], ye beasts of the field: for the pastures of the $\begin{gathered}\text { wilderness do spring, for the }\end{gathered}$ trec beareth her frait, the fig tree and the vine do yield their strength."-Jocl 2:21, 22.

## Benefiting the Cripples

ABOUT 200,000 American soldiers received such wounds during the World War that they are more or less disabled and require special training to fit them for the future. Human nature is very forgetful of what it owes to its benefactors; and these soldiers, who might find many ready to help them today, would not find as many two years from now. Further, it can not be long, in the nature of things, before they will be expected to compete with those who are uninjured, and when they do, it is necessary that they be specially fortified by training if they wrould hold their positions.

The Government is undertaking the training of all disabled soldiers; and experience has shown that there is hardly any trade or profession that they can not master under the personal and kindly care of their teachers, provided they have the will to do so. Their compensation, when fitted for the new work, is usually superiur to that before they entered the service. While learning they are given compensation of not less than $\$ 75$ per month if they live alone, and $\$ 30$ for wife and $\$ 10$ for each dependent child.

Daring the Golden Age there will be some very wonderful healings of cripples. We read, "Then shall the lame man leap as an hart". (Isaiah $35: 6$ ) We had some wonderful examples of God's power to heal during our Lord's ministry, and also doring the days of the apostles. How thrilling must have been the scene, shadowing forth the coming glory of the is nexianic age, now dawning, when Peter said to the man lame from his mother's womh, "Silver and gold have I none; but such as I have I give thee: In the name of Jesus ,Christ of Nazareth rise np and walk. And he took him by the right hand and lifted him up: and immediately his feet and ancle bones received strength. And he leaping up stood and walked, and entered with them into the temple, walking and leaping, and praising God'. (Acts $3: 6-8$ ) Immediately following this wonderfol exhibition of God's power comes St. Peter's still more
wonderfal sermon on the Times of Restitation (Acts 3:19-21) as a result of which thousands of Jews were converted to the Christian faith.

## Mining Under the Ocean

0NE OF the oil fields of the Pacific Coast, lying within a few miles of Los Angeles, extends out into the Pacific Ocean, and a considerable number of oil wells are located at some distance from the shore.
In England, the workings of the Camberland coal field ran two miles out under the sea. The ventilation of these mines is a nice engineering problem, but is successfully accomplished.

At Workington, England, in the year 1837, before the science of surveying was as highly developed as at present, the sea barst through and the workers were drowned.

Many of the oldest mines of England, long ago worked out and abandoned, have filled with water in the lapse of time, and constitate an ever present danger to the miners in adjacent mines, who may be drowned at any moment.

## A Coffee Shortage

THIS would look nice for a headline, would it not, in a day when we are fed with news regularly that first this item of food and then that item is not to be had at the old price because the supply is so limited!

The facts are that there probably never was a time in the world when there was as much coffee in sight as there is at this moment. About half of the coffee-users of the world have been without coffee for five years, and during that time the production has been the same as ever. The green coffee beans keep indefinitely, and get better as they grow older.

Maybe somebody can tell us, atop this information, why coffee that can be bought wholesale in Brazil for $12 \frac{1}{2}$ should sell here at retail for 75 c , bat it is hard for us to understand. It looks to us as though the system of distribation is too well organized, so well organized that the common people have not even a "look in'" nnless they can arrange for coopperative buying.

Well! Anyway! The Golden Age comes along, not all at once, bat gradually. Given the necessities of life in abundance, and statesmen who have a real and abiding interest in people, it will not be long before such a condition as this will be corrected.

## SOCIAL AND EDUCATIONAL

## The New Millionaires

T'HE new millionaires, created by the bloodmoney of war profits, have distinguished themselves by a display of foolishness, during the year 1919, unexampled hitherto in the history of the United States, or in any other country, so far as we can judge, with the possible exception of the Roman Empire in the period just before its fall.
In the matter of personal adornment, nothing has been too rare or too costly to suit the taste of the newly rich. Dealers in gems have found it almost impossible to import sufficient quantities to keep their customers supplied, and the gems sold have been of the very highest quality. The dealers report that whereas they bave two rush seasons, Easter and Christmas, this year it has been Christmas in every day of every month. This is an onhealthy state of affairs.
During the summer season, the most expensive hotels in all parts of the country, with rates ranging from $\$ 7$ to $\$ 25$ per day, were unable to care for their gaests, and resorted to the construction of automobile camps to provide shelter for those who could not be accommodated with rooms indoors.
At Saratoga, where a club seat at the ring side is $\$ 8.80$, and the cheapest admission is $\$ 1.10$, the grounds were packed as never before, the gate receipts ranging from $\$ 65,000$ to $\$ 100,000$ per day and the daily bets at the track ranning as high as $\$ 2,000,000$. In the great cities, bookmakers toured the sky-scrapers and placed other millions.
The gambling at Saratoga was not confined to horse-racing; but at the card table hundreds of thonsands of dollars were repeatedly pivoted rien the tarn of a card. A similar mania is reported from France, where fortanes are won and lost in a single play. It is supposed that part of this high-strung nervous tension in America and in France is due to the suppression of the liquor traffic in this country and the cocaine traffic in France.
The women of France and England are 'reported to have lost mach of their womanly modesty during the year, and perhaps the same is true to some extent in this country. In France
and England the dresses are alleged to be nearing the vanishing point, and if they get mach worse in this country than they were at some of the bathing resorts, we can adopt the Japanese style of separating the men and women bathers by a line, and paying no further attention to such little items as dress. At onc American resort over 500 girls were detained by the police, and word sent to their mothers to bring their daughters sufficient underclothing so that they could go home in decency, or the clothing would be supplied by the city.
At the most expensive restaurant in New York, where two tablespoons of coffec cost fifty cents, the most beantiful and elaborately dressed women of the age stand in line waiting for an opportunity to obtain seats. The houses in which some of these people live have cost fabulous sums. One is alleged to have cost $\$ 5,000,000$. One man used 200 tons of coal to heat his house during last year's coal faminc. A woman expended $\$ 00,000$ for au opera cloak.
Every one is willing to criticize these millionaires, but in some cases we fear the judgment is too severe. We therefore urge that our readers do not think too uncharitably of them. Remember that they as well as tie poor are in some respects under the control of the present social system. Custom has fixised laws and barricades around their heads and hearts. False conceptions of Christianity, endorsed by the whole world, rich and poor, for centuries, have worn deeply the grooves of thought and reason in which their minds travel to and fro. They feel that they must do as other men do; that is, they mast use their time and talents to their best ability and on "basiness principles". Doing this, the money rolls in on them, because money and machinery are creators of wealth.
Thus they no doubt reason that having the wealth it is their daty not to hoard it all, but to spend some of it. They perhaps question whether it would be better to dispense it as charity or to let it circulate throngh the avenues of trade, and wages for labor. Under present wrong conditions, therefore, it is extremely fortapate for the middle and poorest classes that the wealthy are "foolishly' extravagant", rather thàn miserly, spending lavishly a portion
of the flood of wealth rolling into their coffersfor diamonds, for instance, which require "digging", polishing and moanting and thas give employment to thousands who would only add in the number out of work if the wealthy had no foibles or extravagances, but. hoarded all the monery they could get.
In maining these suggestions for the measure of consolation they may afford to the poorer classes, we would not be understood as in any sense justifying the selfish extravagance of the rich, which is wrong, and which the Lord condemns as wrong. (James 5:5) Can we wonder that many are envious, and some angry and embittered, when they contrast the wastefulness of the newly rich with their own family's penury, or at least enforced cconomy, While we wait until the Lord shall vindicate their cause, we cannot wonder that such matters awaken in the hearts of many of the common people feelings of enry, hatred, malice and strife such as we see occasionally manifesting themselves in the current news of the day.

## Conditions of Newsboys

A $N$ INVESTIGATION of the industry of street marketing of newspapers in the principal cities revealed interesting facts about the newsboys.

In Cincimati, for example, there are $\mathbf{2 , 8 0 0}$ newsbors, or $13 \%$ of the boys of the city between ten and sixteen. The boys are not orphans; for $81.2 \%$ have both parents living.

They are not from very poor families; $90 \%$ of the poor families in which there are news. boys receive no charitable assistance. The Jews are $6 \%$ of Cincinnati's population, but furnish $29 \%_{i c}$ of the newrsboys, showing that the trading instinct is a strons factor in turning boys to the occupation. Albout $87 \%$ are natire born. The native born are $90 \%$ in Seattle, $.80 \%$ in Baltimore and 70\% in Boston.

The daily earnings of newsboys average twenty cents in Cincinnati, twenty-two cents in Baltimore and twenty-eight cents in Chicago. In England and Wales the earnings of 45,000 street traders are 121 cents a day.

Many newshoys are in constant touch with degrading or criminal surroundings. According to Maurice B. Hexter, Superintenclent of the United Jewish Charities, who made the Cincinnati investigation, the boys on two papers were dealing with twenty-three supply men, of whom
thirteen were colored men with extensive criminal records. In some cases the boys have to bribe these men to obtain their quota of papers. "No wonder," says the Journal of Education, "Yying, cheating and gambling flourish".

## Human Longevity

0NLY a little while ago we learned from the "experience tables" that the average of homan life has gradually increased from 33 to 35 years. How is it that it is now said to be shortening? The answer is that it is shortening for those who have reached 55 or more years of age, while it is greatly lengthened for many r:ho would have died in infancy but for the superior care infants now receive.

Between 1900 and 1910, in nine American States, the average death rate for all persons under 35 years of age decreased $15 \%$. For persons between 15 and 20 years of age this decrease was as great as $19 \%$. Between 35 and 45 ycars of age the decrease in the death rate was $7 \%$. Between 45 and 55 years of age it was $2 \%$. But over 55 years of age the death rate increased $9 \%$. The causes assigned for this increase are chicfly diseases of the heart, kidneys, circulatory system and apoplexy.

These diseases of maturity, or "degenerative diseases", as the physicians call them, show what we all know to be a fact; nemely, that we are living too fast. A French surgeon belieres that he has discovered a mothod to prevent all these diseases of old age. It consists in grafting the interstitial gland from a young animal to an old animal, causing the latter to take on youth and vigor. His first experiments were with 120 animals, in each case with success. His next experiment was with a man over 80 yenrs of age, upon. Whom he grafted a gland taken from a monkey. The result was that in a short time the man was restored to the health, vigor and mental alertness of a man of 30 years.

The time is at the door when the life of humanity shall be returned to its youth, but our understanding is that the restoration will be done by Christ; for the gift of God, eternal life, can come only through him. (Romans 6:23) Ncrertheless, the French experiments are interesting. They are adding to our fand of human knowledge and at any rate enable us to see how easy it will be for the Lord to perpetuate human life indefinitely when, in due time, his kingdom shall be established in the earth.

# MANUFACTURING AND MINING 

The Chilean Nitrates
'BV T. A. H. Clarke

CHILI'S nitrate of soda deposits were discovered by Indians about a hondred years ago. In building a fire they noticed that the ground took fire in various directions. Fearing that this was the work of evil spirits they took' specimens to the priest, who analyzed it and piled the unused portions in his garden. The next spring there was wonderful vegetation in the spot where the nitrate had been piled. Curiously enough, nothing grows on the nitrate beds themselves; but when nitrate is mixed with soil the results are marvelons. Experiments have shown that on soil where nitrate of soda was used the productivity lacked only about twenty per cent of being double what it was without the nitrate.

The only nitrate deposits capable of being worked commercially exist in Chili, and constitute Chili's most important article of export. Fish skeletons have been found in these nitrate deposits, and it is supposed therefore that at some time the deposits constituted the ocean's bed and were formed by decay of its fishes and seaweeds. The deposits are now found at elevations of 2,000 to 6,000 feet above the sea, to which they have been raised by the earthquakes that are characteristic of the region. The grounds are largely owned by the Government and are auctioned off from time to time.

The rock in which the nitrate deposits are found is gencrally white, bat may be yellow, gray or violet. It is salty to the taste and soluble in water. The nitrate pampas are in the midst of rainless deserts. The caliche (nitrate rock) is broken up by explosives, transported by rail to rock crushers, boiled, refined, crystallized, dried and packed in 2001b. bags fur shipmetii. Iodine and table salt are byproducts $u$ the process of manufactare. The standard nitrate used for fertilizing purposes is ninety-five per cent pare.

It is estimated that 50,000 men are employed in the 167 plants engaged in the production of commercial nitrates, and that three per cent of the available deposits are being worked. Daring the war Chili experienced a great boom, on account of the immense quantities of nitrate used in the manufacture of manitions. The
nitrate has to be lightered out to vessels nifers to a distance of several miles; but great eficiency in this work enables the loading of as high as 250 tons per hour, in spite of the hear: swells frequently experienced.

Surely God's ways are not man's ways. Wliat a strange thing that, out of these desert wasies, should come something which is causing hundreds of thonsands of acres of land in the United States, and elsewhere, to yield almost double their usual crops. The Lord has arailable all the materials wherewith to torn this earth into a Paradise again as soon as the clock of the ages has struck the time that suits his plan and purposes.

## Oil From Coal

TMPERILED economically by the hard peace conditions, Germany is impelled to thrifty employment of her resources. A resource lacking in the German Republic is petroleam, and the Germans are establishing vast factories to convert coal into petroleam and coke. The coke will contain most of the energy from the coal, and the petroleum will be a clear addition to the national resources. According to the claims of Prince Loewenstein, a prominent chemist and manofacturer, $13 \frac{1}{2} \%$ of the coal can be taken out and the remaining "cokelike" sabstance baraed with only $2 \%$ loss of efficiency. The $13 \frac{1}{2} \%$ will comprise $10 \%$ crade petroleam, $11 \%$ benzine and $2 \%$ heavy oil. The government plans to build hage plants for the process, and to utilize the "coke" in the national railroads, which hithérto have used annually about $12,000,000$ tons of coal. The processing of the coal will give 18,000 tons of benzine; 24,000 tons of heavy oil and 120,000 tons of crade petroleum for use in the nation's industries.

The distillation of coal or shale for oil is not new. A process was patented in England in 1850 and another in this country in 1854. By 1859 over sixty plants were worling the dmerican oil shales and supplying the newly invented "fkerosene", to take the place of the whale and animal oils and candles hitherto used for lighting. Up to 1860 the shale-oil industry prospered, bat the discovery of petroleum in liquid form brought an end to the business.
"He becometh poor that dealeth with a slack sand; but the hand of the diligent maketh rich". -Proverbs 10:4.

## Lecreased Efficiency

IN A manufacturing plant no factor is as 1. jupportant as the contribution of the workers. The ability and willingness of the worker to turn out all the work possible is all-important, and has been a prime mover in the efficiency nd profitableness of manufacturing industries.

War conditions have had an interesting effect "pon the working branch of manufacturing. scoording to a large Philadelphia manufacturer un investigation shows that the product per man per hour under identical conditions today nd before the war is one-third less now than hen. This is notwithstanding. an increase of $100 \%$ in wages. In an investigation covering - everal states the wage per man per hour had ncreased $240 \%$ while the product per hour had decreased $62 \%$.

Of course, the reliability of such figures is
3ject to investigation as to motives that might wintrol the investigators. What the average business man finds is liable to be what he wants o find. Figares can often be "adjasted" to tell umost any story.
But if the figures are to be relied upon, the utcome of easier working will result in a smaller ;olume of goods produced, less goods per capita, and higher prices for the goods that are produced. There is no question that if every worker oroduced twice as much there would be twice as snuch available for distribution among the workers, whether by the current wage system Br under any other régime. The only way to pell plenty is w-o-r-k
Perhaps some of the let-up in work is owing to justifiable causes. Somtimes in the past the vorkers have been worked too hard, in which case bun, ungit in hork less strennously; for a worker's health and well-being are of untold nore importance than the product of his labor. Knowing the tendency of employers in the far and the recent past to drive labor beyond sndurance, persons of broad view are glad to see any improvement in working conditions.

Employers seem to think that they are a lind . privileged class, not bound by necessity to work to the extent they make their employes work. They should remember that they are
subject to the same divine law as anyone else, and that one of the requirements of even the Mosaic law was the employer should so regolate working conditions "that thy manservant and thy maidserrant may rest as well as thou".-Denteronomy 5:14.

## American Industries

FXPRESSED in millions of dollars the capiE talization of the various industries of the United States is as follows:

| railroadk | 16,5C3, or | 4n3\% |
| :---: | :---: | :---: |
| Iron and Stecl | 4281, or | 10.7\% |
| Chemicals | 8.034, or | 7.846 |
| Textles | 2,810, or | 7.2\% |
| Food | 2,174, or | 3.6\% |
| Lumber | 1,73, or | 4.4\% |
| Paper and Printing- | 1,433, or | 3.0\% |
| Bevernges | 1,018, or | 2.\% |
| atetals ( 0 ther than tron and eteel) | 1,013, or | 20\% |
| Stone, Clay and Glasa | 987, or | $2.5 \%$ |
| Fehicles | E03, or | 22\% |
| Ieather | 748, or | 20\% |
| Tobaceo | 508, or | .9\% |
| Mtscellaneous | 2,047, or | 6.4\% |

Economists divide human activities into production, distribution, and consumption. Of the industries here listed, those devoted to distribution amount to $44.5 \%$, and those devoted to production are $55.5 \%$, showing a substantial equality between the two. If farming, commerce and finance were added, the figures would be somewhat different.
It is noteworthy that the one industry that has been a drag on the others-beverageswith a billion dollars investment, has been wiped out by national prohibition. It is the only one, except tobacco, whose destruction could not cause some serious consequences. It is gone, and is a good riddance.
The industries of today, with an American popalation of a handred million, are nothing to those of the incoming Golden Age when the billion and a half world population will in a few hundred years rise to over twenty billion. Of this incomprehensible number over a billion should be domiciled in the United States, and the industries of the country should be ten or twenty times what they are now.
The contrast between those now having control of these vital and indispensable interests is suggested by two Biblical expressions: now, "the workers of iniquity flourish" (Psalm 92:. 7); then, "in his days shall the righteous flourish".-Psalm 72:7.

## FINANCE.COMMERCE•TRANSPORTATION

## Short-Line Railroading

GEORGE M. BRINSON hed pat some $\$ 700,000$ of his own money into an 88 -mile railroad running out of Savannah, Georgia. The line ran through farm and timber lands and touched no other large city. He was making the road begin to show a fair retarn.
It was a typical, local, rural enterprise. Mr. Brinson was president, general manager, and pretty mach all the officers. He could pay his workers better wages than they had earned on farms or in the timber. They gladly worked hard for him, becanse he was a good boss. In an emergency the shop men would put on extra steam to get the rolling stock ready for renewed service. Others willingly worked the same way, and regarded themselves much better off than they had been.

The road-bed was not yet seasoned, and before putting good, substantial, new locomotives on the line, Mr. Brinson bought five old "rattletrap" locomotives, to take the brant of the rough service and rack themselves to pieces. The line had some cars of its own, but not enough for the traffic; and it botrowed the needed extra rolling stock from the big lines, which were getting new business from the Midland and glad to accomodate a new "feeder".
Mr. Brinson has appeared and testified before the House Committee on Interstate Commerce. The road had been in operation only a few years before the Americaī-German war. Now he cannot get a shop-man to help out by speeding up when a locomotive is out of repair and is argently needed to handle traffic. The big lines no longer loan him their cars. The local labor receives the same wages as the Government pays everywhere. He cannot make the old deals, to induce traffic to move over his line, evcn if he could get the cars to carry it.

The total investment in the road is about $\$ 1,200,000$, including $\$ 360,000$ of bonds. Mr. Brinson says the bonds are in default as to interest payments; but the bondholders, being local people, have not foreclosed. He states that he cannot possibly operate the road to clear expenses, to say nothing of paying interest on the bonds. The value of his $\$ 700,000$ in the
stock has been largels wiped out; and there seems not the slightest chanoe of ever declaring dividends on the investment.
Things look blue, if not black, for the Midland. And it is typical of the little roads which have signed the short-line contracts governing conditions of operation.

The country's railroad expansion requires substantial, enterprising business managers of Mr. Brinson's type. He is the kind of man that throws railroads into new stretches of country, and opens zp and develops them. The railroad development of the land is in the hands of the Brinsons, the executive heads of the hpndreds of short-line feeders for the big systems.
How much does Mr. Brinson feel like bailding another short-line road, like the others he has boilt and successfully managed up to a paying position, before he sold them to otherst What is to become of the necessary expansion of the country's roads! Who will develop the territory just ready for new lines!

The old is passing. Perhaps new ground will be opened up effectively by truck lines. Perhaps cheaper transportation than railroads will be found in the Ford gasoline motor car. Inventive genius is constantly working on new and better methods. Soon even the world will realize that "old things are passed away; behold, all things are become new":-2 Cotinthians 5:17.

## A Very Weighty Matter

MR. EDITOR: In your issiae of October 1st, $\mathrm{M}_{1919 \text {, page } 6 \text {, secoind column, you make a }}$ statement which has been called in question, viz., "Every year our railroads carry 650 tons for every man, woman, and child in the land". I would like to ask. whether this can be a misprint or a misstatement. If that means each man, woman, and child, and there are five in the average family, it would mean 3,250 tons to be loaded and unloaded for each family, and it would look as if Dad would hate to hastle lively in moving freight, in addition to earning a living.-EL. M., Los Angeles, Calif., Oct. 25, 1919.

Just the kind of shot ve might have expected from a country where the climate is so perfect that houses are a muisance, clothing is a burden and the food question is a joke! E. M. ought to
live up in the frozen North through one or two of our January and February mater-pipe festivities, and "heft" our imitation marble slabs, our limestone-laden flour, our "bony"-laden hard coal, our "loaded" fabrics; and then he would know why we have to have things ap in this country in the winter time in order to keep alive.

Suppose now, E. M., that we were to get a box of oranges from the paradise where you live. It comes right through 3,127 miles to New York. To start with, let us suppose it weighed 60 lbs . Statistically speaking, when that box of oranges reaches our front steps it will weigh just 93.81 tons. Fou just send the box right along and see how bravely Dad rans out and lags that 93.81 tons up the steps, and watch the smiles on the faces of the kiddies when he does so. Railroad tonnage is figured in ton-miles. 650 tons for each person means 650 tons carried one mile. But most of our things are carried many miles, and this runs op the tonnage. A ton of Scranton coal in Los Angeles would weigh, theoretically; over 3,000 tons. But, pshar, what is the use of our sending coal to Los Angeles? They would not know what it was when thes saw ft.

## Rice Imports

THE shipment of American foods to Europe has had an interesting effect npon the rice trade. In 1917 the total rice movement from China and Japan to the United States was 33,486 tons; but in 1918 one American banking company alone, through one American. port, imported a quantity three times as great.

In 1694 a vessel bound for Liverpool from Madagascar was blown so far out of her course that she had to put in to Charleston, S. C., for repairs. While there the captain of the vessel gare a small package of rice to one Thomas Smith, to use as seed. It had been supposed previously that rice would not grow in this country, but Smith grew enough rice the first year to almost feed the whole colony, and it has been a staple crop of the marsh lands of the soathern states ever since. No doubt the Lord knew how suitable is the South for rice production; and it was his hand that gaided the Madagascar vessel to these far shores, and laid the basis for a part of the great food supply that will be needed by the myriads of mankind that will fill the earth in the Golden Age-

## Canada's Finances

T
HE new governing factors of Canada will have large problems to handle. During the four years ending with 1918, Canadian investors advanced seventy-one per cent of the total sum of $\$ 1,561,019,024$ put into the war during that period. In that time the national debt was multiplied by more than five, and the interest on the debt by more than nine. Within that period, although the gold supply increased, the paper money in circulation increased so greatly that there are now only forty-two cents in gold back of every paper dollar, while in' 1914 there were seventy-four cents back of each dollar.

The Government's requirements for the year, on account of demobilization and other extraordinary expenses due to the war, are estimated at $\$ 800,000,000$, of which amount only abont $\$ 280,000,000$ can be provided by the revenues of the country. Somebody must. "find" the balance. At the close of the fiscal year Canada's debt will be about $\$ 2,000,000,000$, or $\$ 250$ per capita. The pension burden in Canada will be vers heary. The $8,000,000$ people of Canada will try to pay in pensions an amount equal to that paid by $50,000,000$ people of the United States to the Union Veterans of the Civil War.

No Solomon, or collection of Solomons, will handle the complicated questions that modern statesmen have to face without experiencing a large part of the "distress of nations, with perplexity" which our Lord said would immediately precede or accompany the time when they shall "see [with the eyes of their understanding] the Son of man coming [into control of earth's affairs] in a clond [a time of trouble such as never was since there was a nation] with power [irresistible] and great glory" (ultimately). Then the Lord adds: "When ye see these things come to pass, know ye that the kingdom of God is nigh at hand". (Lake 21:25-31) The new Canadian legislators have a hard job ahead of them, and in the end they will be even more glad than others when the Lord lifts the barden from their shoulders, and bears it away himself by inaugarating the Golden Age for which we have always longed. What a blessed condition will then obtain everywhere! All who will accept the gracious arrangements of the incoming Messianic kingdom will thereby be enabled to retorn to divine favor and life everlasting in a world-wide Paradise restored

# POLITICAL - DOMESTIC AND FOREIGN 

## A Canadian Revolution

N OBODY need be alarmed when we state that a revolution is in process in the great country to the north of us. It is a peacefal revolution, but none the less real. The people seem bent on no longer entrusting their interests to either of the two old parties, but of having a housecleaning, from the ground up. The work of removing all the old political elements and placing new parties and new men in charge of the country's affairs is in full swing, and apparently nothing can stop it.

During the war the Canadians came to feel more and more a just sense of their country's importance in the affairs of the world, and at its conclusion demanded separate representation of Canada at the peace conference and the privilege of signing the treaty on their own account. In the treaty as drakn there is no distinction between Canada and other powers signatory to it. This determination of the Canadians to have something to say about how they will be governed in the future is now reflecting itself in the domestic politics of the provinces and dominion.

Throughout the war Canada was governed by what the Canadians have called a Unionist Government ; that is, a coalition of the so-called Conservative and Liberal parties, in which all differences were merged until the war should be won. Now the common people are raising such a clamor to be heard on their own account that the old line-up of the Conservatives and Liberals has been resumed, and for the delectation of the public the Liberal leaders have been telling the people what they think of their late bed-fellows. In a statement printed in the public press they recently denounced the Gorernment in these words:
"We charge that the Government has failed to represent the people and has outlived its usefulness. No body of men has the right to usurp power and continue to rule without submitting its policy to the consideration of the people. The Government has failed to take the people into its confidence in framing its policy in the past, as also in formulating its policy for the future"

The Canadian people as a whole seem to believe pretty much all that the Liberals have had to say about their late bed-fellows, bat
they go farther and believe that the Liberals themselves are as untrustworthy as the Conservatives. They claim that the whole arrangement by which the people have been governed by orders-in-council, by which liberty of thought has been terrorized through wholesale arrests, scizare of publications, and breaking-up of meetings of law-abiding, God-fearing people, through overworking the word "patriotism", has been, to say the least, extra-legal.

Now the Canadians seem to have reached the conclusion that, for them, terrorism shall cease to terrorize. And who shall say that they, at least, have not shown some real common sense, and some real patriotism? Does true patriotisna mean that one may never dare to have a different opinion from that held by the person or persons who, for the moment, have the reins of power! Or does it mean if one is really patriotic, that he must wave his arms and throw his hat in the air, and shout himself black in the face, every time such person or persons give expression to a new. thought or to a contradiction of an old one?
The new determination of the Canadian people to be done with old party lines first came to light in a by-election held in St. Catherines, Ontario, in February, 1919. The District had always been a Conservative stronghold. Thère a new party, the Labor party, entered the field. It had been unknown hitherto, and a candidate was secured with difficulty. Bnt it came very near winning the election, and its supporters claim that it did win the election if the votes had been honestly counted. It was a startling indication of the temper of the people, of their determination to have a real democracy instead of an antocracy posing as a democracy.
Daring the summer there was another expression of the popular dissatisfaction with the old Canadian parties in the tronbles at Winnipeg. There were many things connected with the Winnipeg troubles that have never been cleared up, and it is not generally known on this side of the line, even to this day, that the majority of the Winnipeg strike leaders were British-born, and of proven loyalty to Canada and the Canadian people, right at the time when they were being widely accused as fomentors of
disturbances among foreigners. In the Fall the Canadian people had their long-desired opportunity to give an expression at the polls of just how they felt about how things have been managed by the old parties.
In October came the elections for the legislature of Ontario, the most populous, most conservative province in the Dominion. Besides the new Labor party, the United Farmers of Ontario, enother political party only two years old, entered the field. These farmers are absolutely against any return to the sale of liquor, are opposed to intervention in Russian affairs, demand that Canadian politicians keep out of European affairs altogether, welcome settlers from oppressed lands to come to the Dominion, have a plan of progressive legislation in जिiew which they hope to make into laws, and are linked op with similar organizations of farmers in the provinces of New Brunswick, Manitoba, Saskatchewan and Alberta, who fornished them with speakers in the campaign.

The result was a campaign that is described -ar having taken on the nature of a religious itrival. The women voters leaned more and more to the side of the two new democratic parties. Prominent men who entered the contest on the Government side swang to the side of the people during the fight. The outcome was a surprising victory of these two brand new parties over the two old ones. The Conservatives, who had formerly held the control by a total of 80 out of 111 seats, were dethroned, and the coalition of the Labor and United Farmer parties has 56 seats, a majority of one over all the old party candidates and independents puit together.

The people of Ontario went to considerable trouble to lay emphasis tpon their disapproval of the old parties. A so-called labor-soldier candidate was defeated apparently for no other reason than that he was backed by the expiring Conservative guvernment. One man was reported as elected merely because be had been attacked as a Bolshevik. The mayor of Brantford was elected, supposedly, becanse he ignored the demands of the Conservatives that he should not let one of the western labor leaders, Mr. Ivens, speak in the city:

The gentleman, William Ivens, about whom the dispate in Brantford centered, is a Methodist minister, and at the time of the troables in Winnipeg was editor of the Western Labor

News, the official organ of the strikers. When he was arrested and taken to the penitentiary near Winnipeg, another gentleman, by the name of Woodsworth, was placed in charge of the same paper. The latter is an interesting character, an idealist, for twenty years a minister in the Methodist charch, author of a patriotic book, entitled "Strangers within out Gate-Coming Canadians," founder of the Winnipeg People's Forum, founder of the Canadian Welfare Leagree, and Director of tha Bureau of Social Research of Manitoba, Saskatcherran and Alberta. At the end of a week he also was arrested on the charge of inciting to hold an unlawful assembly. When the facts were explained to the people of Brantford, they seemingly concladed that those responsible for the arrests of Ivens and Woodsworth were entitled to a rebuke; and they administered it.
Since then the United Farmers have won three out of five by-elections in New Branswick, Ontario and Saskatchewan, points twenty-five hundred miles apart. In New Brunswick the United Farmers candidate was returned by a 3,000 majority over a returned soldier. In Ontario the Farmers' candidate had a majority of nearly 2,000 and in Saskatchewan of nearly 4,000 votes. This shows an awakened people.

The Farmers' platform includes lowering of tariffs on goods imported from other countries, especially if imported from Great Britain: reciprocity with the United States; a tariff commission; tazation of unimproved land talues; an income tax ranging from $2 \%$ on $\$ 2,000$ to $50 \%$ on incomes of $\$ 100,000$; linheritance tax; incoithe tax on corporation profits; public ownership of priblic necessities; abolition of titles; abolition of the Canidian senate; national prohibition; referendum and recall; and complete equalization of the parliamentary status of women.

We canniot but sympathize with the people in their aspirations for a more democratic government, and in these aspirations they approach more nearly to the standards set forth in the Scriptares. To the confusion of those who ignorantly claim that the Bible sanctions an established empire rule over the people, instead of " a government of the people by the people," be it noted that Israel had a republican formi of government which continued for over four hundred years. And it was changed for that of a kingdom at the request of "the Elders," withi
out the Lord's approval, who said to Samuel, then acting as a sort of informal president, "Hearken unto the voice of the people in all that they shall say unto thee, for they have not rejected thee, but they have rejected me, that I should not reign over them". The people feel their need of a wise and strong ruler and will find him in the Lord, and in him alone, and that shortly. The new parties in Canada may do something to alleviate the condition of the people; but they can not do much. The conditions the leaders of these parties must face - are very dificalt. They will find themselves confronted with problems they have not foreseen, and will be expected to produce changed conditions more quickly than will be possible. We hope for them that they will be wise, and kind, and just, and strong for the interests of all the people.

## Governmental Limitations

I
T T IS plain enough that if none of us ever did 1 anything, or produced anything, we would all be naked, homeless and starved. Until we get to work and produce something there is not much to govern, unless it be to form a sort of matual defense society to prevent the stronger from killing and eating the weaker. So the fundanental fact of government is work. "If any would not work, neither should he eat." ( 2 Thessalonians 3:10) We must not get the jdea that any hind of government man can devise will make it unnecessary for him to work And just now, when there is a shortage of clmost everything that human beings need, due to the great waste of the war, the governments of the world are right in their conception that anything that will cause the people as a whole to produce more goods will be to the benefit of the people as a whole.

This brings us to the question of how men can ${ }^{1}$ be induced to produce more, so that there will be more to divide. The prevailing rule of thought in the past has been that the only thing that will induce the average man to pot forth his best efforts is a desire to own and to hold things. And it must be admitted that there is a great deal of truth in this contention. A eystem which makes each man responsible for the care of his own wife and children will canse the average man to pat forth more effort than where his work will be used for the benefit of the wives and children of others.

Any man who has the idea that it would be better for the Government to own and operate all the industries of the country would do well to visit any pablic building in any city of the United States and note the general shiftlessness of the occupants, the dirt, disarder and indifference manifest on all sides, and then turn to any equally large brilding in the hands of a private concern and note the difference. The general atmosphere of the one is dirt and laziness, and of the other cleanliness and industry.

The average man looks npon a political job as an easy one; and while he has the job he is liable to expend most of his energies in trying $t 0$ retain the job rather than in trying to render efficient service. But if he has a job with a private concern he knows that he must prodyce definite results, and that if he does not do it he may lose his job. He sees other men abont who are doing their best to help themselves up in the world; and his fear of what they may do to him and his family if he does not do the work expected of him leads him to pat forth more effort than he might otherwise do.

So then there are some good things to be said about competition. But competition in many lines is an abosolute waste. Two telephone systems or two street railways in the same community are a nuisance. Two telegraph companies render better eervice than one; but it is a great waste to the community as a whole to have to maintain two complete sets of offices, poles, wires and equipment. Here is a legitimate field for Governmental activity-how to produce an absolutely reliable and efficient telegraph service, one equal to that provided by private owners, but at less expense to the public. The public should pay less to the Government for such a service than to private owners because a Government ownership of telephone - poles and wires would enable the telegraph lines to be operated in conjunction with them at rednced cost. All the wires could be carried upon the one set of poles. Governmental telegraph service in Earopean countries shows that this is a problem which, if placed in the right hands, can be handled efficiently by the Government, and at reduced costs to the public. Besides, the Government has facilities, through the Post Office, for the delivery of telegrams.

Competition, if it can be honestly maintained, should result in good service and low prices to the consumer. But if all the milk dealers, for
example, gather together and agree on certain prices, competition ceases, and there is as true a monoply as though one concern did all the business. And there is the disadvantage that one concern conld do all the work, and do it more efficiently and more economically than a dozen, all traversing the same streets, at the same time, with the same product. Which is better, to have a real monoply and not admit that it is sach, or to admit that monoply is inescapable in such a business, and endeavor to hold it in restraint by having the municipality itself engage in the business as a competitor: In numerous cities abroad this plan is followed with good results:

Unrestrained competition is bad, too; for it leads to long hours, abominable shops and factories, adulteration of goods, false representations of merchandise; and the dishonest underselling of competitors with a view to ruining them. We mnst have the aid of a Government, national, state or municipal, to prevent the stronger from killing the weaker by laws of their own making. Fortunately, at this stage of the game, the worker himself has something to say about it; and his protests against long hours, low wages and unsanitary working conditions all operate to the advantage of society as a whole. He would render a still further aid to hamanity if he would blazon upon the housetops every act of adulteration of goods or misrepresentation of them that comes to his knowledge, even if he lost his job by doing it.

In that case the Government he has benofitted ought to aid him in securing employment.

What is needed is a spring of human endearor other than the law of selfishness, a new well of water, a law of love, a inotive that has the interests of others more in view than one's own interests, which, however, should not be neglected. The present governments of earth are far better than none at all; and we all do well to think about their activities in constructive fashion, considering what thes can reasonably do in the interests of the people as a whole without at the same time becoming intolerable nuisances by inefficiently and expensively doing what private enterprise can do better, and by attempting to decide for us just how we shall think on questions in which they are interested. The more the people expect the Government to do for them, the higher will be the taxes which must be extracted from the people in one form or another. There is no escaping this.

The thing that we all desire, whether we know it or not, is the establishment of Christ's kingdom. "Thy kingdom come. Thy will be done in earth, as it is in heaven." (Matthew 6: 10) Earth's new King will know just what laws to put into effect, and just how to enforce them. He alone has the power to give such a government as will insure neither sickness, sorrow nor death to those who obey his jnst and righteous will. This is earth's hope, and its only hope. And, best of all, "The desire of all nations shall come"!-Haggai 2: 7.

## The Great Agnostic's True Vision

I see a world
Where thrones have crumbled
And where kings are dust.
The aristocracy of idleness
Has perished from the earth
I see a world without a slave.
Man at last is tree.
Su'ure's forces
Have by science been enslaved;
lishtoing and light.
Wind and wave,
Front and tlame,
And all the secret subtle powers
Of earth and air
Are the tireless tollers
For the homan race.
I see a world at peace,
Aclorned with every form of art;
With murle's mytiad voices thrilled; While Lips are rich
With words of love' and trath; 4 world in which no exile stath,

No prisoner monrns;
A world on which
The gibbet's shadow does not fall;
A world where lnbor neaps its full reward;
Where work and worth go hand in hand.

## I see a world

Without the begrar's outstretched palm,
The miser's beartless, stony atare,
The piteous wall of want
The lirid lips of lien,
The cruel ejes of scorn.
I see a race
Without disease of tlesh or braln,
Shapely and fafr.
And,
As I look.
Life lengthens,
Joy deepens,
Love canoples the earth,
And over all in the erreat dome
Shines the eterunl star
Of homan hopa Rebert G. Ingersoll.

## AGRICULTURE AND HUSBANDRY

## Dehydrating Grapes

TEN tons of grapes in twenty-four hours is the record maintained by the first commercial dehydrating plant of the kind, located in Pomona, Califormia. It is a saver of waste products; for forty-five per cent of the grapes treated would have been scrapped, because broken or otherwise injured by heary rains.

Conntry people are familiar with the old method of drying fruits, by exposing them, in trays, to sunlight, dust, flies, and germs. When drying attains the dignity of a manufacturing process the old name is too commonplace and it becomes dehydration, which signifies the extraction of water, or plain "drying". Fruit of any kind may be dried by the new process, and stored indefinitely. When soaked with water, the dry cells swell up, and the fruit regains much of its original size and, according to the inventor, most of its flavor.

If dehydration plants were scattered generally over the country and made as accessible to the farmer as a dairy, the over-production of any kind of fruit or vegetable could be turned from loss into profit; for the dried product might be stored until the close of the season for the fresh fruit or vegetable, and then be placed on the market, without fear of deterioration, to the advantage of farnuer and consumer and to the lowering of the cost of living.

Dehydration plants make for easier work in the kitchen. If there were a plant in a city the housewives, instead of going to the labor and expense of canning and preserving, could bring their fruit to the plant and get it back dehydrated and in a form most convenient for preservation and use. Doubtless many new recipes might be invented for sweetening or flavoring frnits before having them dehydrated, and hitherte unusual combinations of fruits and vegetables might be made by enterprising housewives. The existence of drying-plants in towns and cities ivill open up an entirely new field of enterprise and originality in home and store. Grocers would need have no fear of loss through spoiled fruit and produce; for anything approaching the danger line could be rushed to the dehydrating plant and.returned in its new form ready for sale immediately, or
when the demand for dehydrated products would make the operation profitable.

In the Pomona grape-dehydrating plant, the grapes are placed in large trays with screen bottoms, and slipped into hage oven-like driers. Heat comes from large gas burners; and heated air is circulated over the grapes by a huge fan, which sends it through a net work of chilled pipes, on which the moisture is condensed and drips away, the dried air retarning for further duty. The repeated use of the air is one of the secrets of the economy of the plant as compared with other plants where the air is discharged into a chimney.

It is largely the California wine grapes that are being dehrdrated, in order to meet the demand that will arise for the use of such grapes for the making of wine in the home, certain officials having ruled that wine may be made for home consumption.

Savings in freight, crates, tin, sugar and decay are claimed for the new process. Immense losses can now be prevented in crops that ripen quickly, or that are damaged by rain, frost or heat, and great advantages are predicted for housewives in country, town and city, wherever the dehydrated system obtains.

Poor humanity needs the help that a general economy of food would furnish, for now by tens of thousands people in war-torn Europe are being "barnt with hanger". (Denteronomy 32: 24) With what unspeakable relief will these distracted ones welcome the day when "they shall not hunger nor thirst" (Isaiah 49:10), and "they shall be no more taken away with hunger in the land" (Ezekiel 34:29); for with many such improvements as that ontlined above will the Golden Age be blessed.

## Buying in the Dark

THE latest in the land-shark business is "peannt units". The guileless gullible buys so many square feet or acres of land sweetened with the promise of all kinds of profits from peanuts that will be gromn on the land. A Chicago concern is said to be offering land in Florida, to be planted with peannts, at the modest (9) price of $\$ 2,500$ for ten acres, or multiples thereof at the same price.

## HOUSEWIFERY AND HYGIENE

## Typhus a Pestilence Now

PUTRID fever, ship, jail and camp fever are some of the names under which typhus fever has traveled in tine pasi, and through which it has won an undesirable reputation. It is now raging with the proportions of a pestilence in the war belt from the Baltic Sea to the Black Sca. Physicians are unable to cope rith it; and it is pronounced to be on far too extensive a scale for even the Red Cross to meet with hope of success.
The disease is rare in the United States because it is a filth disease and the Americans are one of the cleanest people in the world. When it occurs it is usually among immigrants. It is rare in European centers of population; but in filth centers, such as certain cities of Ireland, Russia, Egypt, India and Mexico, it becomes epidemic. Its presence is both a misfortune and a disgrace, becanse due to overcrowding, bad ventilation, poor food, and bad habits, which are the fruits of ignorance.
Typhus is like typhoid in some respects, but is easily recognized, quarantined, disinfected and controlled. It is communicated by contact, by the breath, by germs arising from the ekin, and by the dust of the room. Under favorable conditions aboat ten per cent of the cases die, but in centers of filth and squalor the mortality is appalling. It bagins like typhoid, but develops a dull red rash. Since the treatment consists mostly in combating the causes that give rise to the disease, it appears that it is not well understood by physicians, who bave to let the disease ran its course of fourteen to twenty-one days, without being able to assist nature materially though they mitigate the suffering.
The prospects are that with the people of the war zone exhausted, poverty stricken, underneprishod, and discouraged by the miseries of war, the dreaded pestilence may spread from its present zone of Lithuania, Esthonia, Poland, Ukrainia, Serbia and the Balkan states into Hungary and Anstria. Only if prosperity can be restored in other nations of Europe can the typhas be prevented from extending itself all over the continent. There is a shortage of food and medical supplies, and of soap with which to
fight the plague; and there are 10,000 people for every doctor in Poland, with a worse condition elsewhere. It is the worst visitation of typhus since the dark ages.
This is one of the great pestilences directly due to the war. It is one of the indications of the end of this age, and of the early establishment of the kingdom of God. It is written of this time that, "Before him [before the Golden Age] went the pestilence" (Habakkul 3:5); and Christ said that the days immediately before his presence would be marked by "famines and pestilences". (Luke $21: 11$ ) It is good however, to know that the period of evil conditions will be very short, and that the world will quickly pass into the better days of the Golden Age.

## Remedial Foods

$\bigcup$ SE celery for any form of rheumatism or dyspepsia.
Lettuce for insomnia.
Watercress for scurvy.
Onions are the best nervine known.
Spinach for gravel.
Asparagus to induce perspiration.
Carrots for suffering from asthma.
Turnips for nervous disorders and for scurve.
Raw beef for frail oinstitutions and for consumptives. Chop fine, season with salt, and heat by placing the dish in hot water.
Cranberries for erysipelas. Use externally as well as internally.
Cranberries, raw, are good appetizers.
Cranberries in cases of yellow and typhoid fevers are almost indispensable as a tonic and to clear the system of harmful geims. For some forms of dyspepsia there is no more effective remedy known. Carry a supply and eat frequently during the day.
Use cranberries for bilionsness.
Fresh ripe fruit to parify the blood and tons up the system.
Sour oranges for rheumatism.
Watermelon for epilepsy and yellow fever. Blackberries for diarrhoea.
Tomatoes are a powerful aporient for the liver, for dyspepsia and indigestion.

Bananas for chronic diarrhoea.

## SCIENCE AND INVENTION

## Creation Nearing Perfection <br> By I. B. Alford

 (Relensed to The Goldcn $\Delta g e$ )IT IS very manifest that in antediluvian times the entire earth's surface was of uniform temperature and moistare--that there were no exiremes of heat and cold, wet and dry as now. This means that the entire earth was in a much more fruitful condition then than now. In one certain locality-the Garden of Eden-absolute perfection prevailed. In this place the besaties and grandear of perfection were such as to stagger the efforts of the most active imagination. The uniform temperature and moisture conditions prior to the Flood resulted from "the waters above the firmament"-air-remaining in suspension as is observed in the case of the planet Saturn today. This canopy served as a kind of hot-house condition, preventing lowering of temperature. Hence, it rained not at all, but "there went up a mist from the earth, and watered the whole face of the ground". -Genesis 2:5, 6 .
This equable climate and uniform moisture insured an abundance of the most varied tropical vegetation, as well as animal life. As evidence of this fact note the finding underneath glacial ice-drifte of bodies of tropical animals in perfect state of preservation. An antelope was found thus recently with undigested grass in its stomach. And more recently still, during the summer of 1919, specimens of fraits, such as oranges, lemons, bananas, cocoanuts and many kinds of edible fruits now extinct, were found in a petrified state underneath an old avalanche at the base of White Mountain in Pennsylvania. Also the petrified remains of fre-e lizarila and horned toads were in evidence in ter same locality.
what does this prove?
Simply that iniere was once an abandance oi tropical fauna and flora in the present state of Pennsylvania. Then what magical wand hath wrought to great a transformation from tropical to low temperature conditions The answer is, The Flood of the Bible in Noah's day.

Let us now follow "the waters above the firmament", and see them gradually collect, under the influence of earth's centrifugal force, about the poles until the great pull of gravity
there causes these waters to be precipitated in great deluges upon the earth. With the breaking of this canopy the hot-house condition of the earth was released, and the waters froze as they fell and entrapped under mountains of snow and ice many unsuspecting forms of life.
It might be well for geblogists who have tried in vain to ascertain the time and canse of the great Glacial Age of history to consider again, in the light of the canopy theory as above stated, the Scriptural narrative of the Flood It is very manifest that during the earliest periods of earth's development only the lowest forms of life were in existence. This is accounted for in the light of the fact that the relative proportions of the various elements of the earth's atmosphere were such as to sustain only those forms of life at that time.

With the passing of time through the several epochs in the creation of the earth both the temperature and the component elements of the air underwent great changes. As, for instance, in the Carboniferous Age, the surplas amount of carbon-dioxide of the air at that time supplied this necessary element to the rank forests with which the earth was covered, until a diminution in the amount of carbon, by reason of its absorption, caused such rank growth to cease. On account of the absence of animal life at that time there was no way for nature to zaintain a balance of atmospheric conditions as now. This condition resulted in the death of the vast forests of that age. But being highly impregnated with carbon these forests did not decay; for under such conditions, withont sufficient oxygen, decay was impossible.
With the descent apon the earth of this carboniferous canopy and ite simultaneous consumption in the vast forests of earth, there were laid the foundations of the great coal fields, which still exist. These subsequently by deluges and avalanches became submerged, resulting in their bcing mined from beneath the earth's eurface today. At the "end of the age," the air being filtered of its surplus amount of carbondioxide and charged, instead, with an increased amount of oxygen, the earth teemed with myriads of "iving creatures, fowls of the air, cattle, creeping things," etc.

At the psychological moment, man, the crowning act of creation, steps forth from his plastic mold "a little lower than the angels", but the highest of earthls creations. God had prepared for him a place; and Eden was his home. In 1 ihis home, as already stated, it was Adam's 1 rivilege to remain forever, provided he should licep inviolate the laws of his Creator. His descendants likewise would hare been born with the same privileges. And with the gradual increase of his large family, now estimated at twenty billions, he rould gradually, as necessity had demanded, have extended, by subduing the earth, the limitations of the Garden of Eden until it reached that condition of world-wide paradise.-Genesis 1:26-28.
This plan of sulduing the earth would have been much more easily accomplished than the one upon which man has been engaged since knowledge began to increase, because the "thorns and thistles" of the earth were little in evidence until after the Flood. Besides, Adam in the beginning virtually had control over the (nrth, and it was only necessary at that time to liring it into complete subjection. But Adam lust this near-perfection control, and with it, his perfect maihood. As a result both man and the earth began a gradual decline domn to the time of the Flood. After this event rapid decay of man was manifest; and the earth swarmed with the promisec "thorns and thistles".
It becomes necessary at this stage to consider again the relative component parts of the air, and its temperature, since these determine wholly the variety a d profusion of life on earth, and the degree or their vitality.

The comparative absence of nitrogen in the atmosphere prior to the Flood was due to the minimum amount of decay during that time. But with the wholesale destruction of plant and animal life at the time of the last deluge, and th, $\omega_{0}, \cdots$ saiuairid with nitrogen-the result of this decay. 'this intrasion of nitrogen, a by-product, into the air had the effect of upsetting its former balanced state of equilibriom.

As proof of this statement note the beginning of shortening of human life immediately following. And, of course, as death and decay increased by reason of the continued shortening of life, the amount of nitrogen in the air also increased until at the present time seventyseven per cent of the volume of the atmosphere
is said to be nitrogen! With this great amount of uitrogen intruding itself in the air the original elements of oxygen and carbon-dioxide must of necessity be much diluted. And this is now understood as having been the immediate cause of the shortening of life after the Flood. hot only was the air thus dilated, but it was polluted-poisoned-by reason of such contamination, becoming in a sense death-dealing.

Lest some may hold with the old text-books on Chemistry that nitrogen is a component part of the air, it only becomes necessary here to call attention to the fact that this substance undergoes no change whatever in the process of respiration. Carefally conducted experiments show conclusively that in the process of animal respiration there is an appreciable decrease of axygen and a corresponding increase of carbondioxide. But the amount of nitrogen in both pure (so-called) and impore air remains the same. Thus we see that nitrogen has been an intrusion in the air; but before we have finished this discussion, we propose to show how even this temporary interference will, like the permission of evil, result finally in great benefit to humanity. In the first place it hastens the "dying" penalty; and this within itself was a blessing to man daring the supremacy of evil in the age jast now passing away. In the absence of conversion to Christianity and genuine reformation of life, long exposure to evil influcnces renders any character more depraved. All have doubtless observed that little children crdinarily are more nearly immune from common vices than are adults.

Besides this, it now appears, doring these days of "increase of knowledge" that the nitrogen, stored in the atmosphere, is yet to serve a most important economic purpose in contributing to the restoration of the earth's fertility. Of late years the agricultural scientist has discovered means of extracting this element from the air and of causing it to.enter the soil of earth, where it becomes available plant food This is accomplished by growing certain plants called legumes-peas, beans, the various linds of clover, etc., which, by the process of osmosis, absorb nitrogen from the air and deposit it through root nodules into the soil, where it becomes amalgamated by a kind of microbe action with the soil, setting free certain important elements which are at once taken up by plants, thus stimulating their growth

Nor is this all: It has been found that nitrogen can be very profitably tased in the manntacture of high explosives. This being true, the various governments hase, during the recent war, had recourse to this almost inexhanstable supply of material, constructing immense chemical plants for the purpose of extracting out of the air this necessary element. But $\begin{aligned} \\ \text { nith the }\end{aligned}$ signing of the armistice this ontput is now being turned into an entirely different channel, that of manufacturing nitrogenous commercial fertilizers. This will greatly aid the earth in yielding her "increase", as foretold, and urill result in another blessing to man instead of an injury. How literally true is the statement that "God is able to make even the wrath of man to praise him"!

With the increase of the food products of the earth as a direct result of rendering the soil more productive, will come a corresponding increase in the quality of such foods. This fact has already been demonstrated by carefully conducted experiments. Two pigs from the same litter were each segregated and given exactly the same attention as to water, food and general environment. In fact, all conditions were exactly the same in every respect as to the amount of food, and each given the same kind of food. The food in each case was corn in equal weight. The only difference was the quality of the corn; one lot of which was grown on soil producing only fifteen bushels per acre, while the other corn came from land producing sixty bushels per acre. The test extended over a period of ninety days, simultancously conducted. The pig fed on the better quality of corn gained more than twice as much increase $i \boldsymbol{j}$ weight as the other pig which consumed the ohme number of pounds of food containin of the inferior quality of corn.

It seems pertinent to note in this connection that of all avenues of human activities, none are making greater progress tl in that of intensive farming. The goal of this particular line of activities will have been consummated when the entire earth is fully "subdued", and caused to become excecdingly fruitful. If any one doubts that these things will be accomplished it is but necessary to remind such an one that these things are already being accomplished today. Consider, for instance, the tomato which only $\Omega$ few years ago grew in its wild state, and about the size of an ordinary marble; today, by means
of proper sclection, breeding and cultivation its size is increased more than seventy times, not to speak of the great improrement in its lusciousuess. From everywhere come easily verified reports of the development of the pecan from the originally wild seedling which required twenty to forty years to begin bearing, to the modern paper-shell of eight to ten times its original size, and bearing profitably at five to eight years of age. These illustrations are toleen from the achievements of the present average crop productions, and do not consider the marvelous achievements of sach men as Burbank and other specialists.

Less than twenty years ago the average farmer was contenting himself with growing but one crop per year, and each successive crop was rapidly depleting his soil. Today he is growing two or more crops per season-at least one a legume-and at the same time is improving from year to year the fertility of his soil. And this without using commercial fertilizers.

Who that believes in God shall doubt his word or power! He has spoken and is able to perform the same. He has said, "My Word shall not return unto me void, but it shall accomplish the thing whereunto I have sent it". He declares that he will make the place of his footstoolthe carth-glorions; that "Jehovah who created the earth formed it not in vain, bat to be in-hnbited"-"that even the desert places shall become like the ancient Garden of the Lord".

There remains in this connection one other thought to be considered. We have already observed the descent and precipitation from time to time of deluges of various sabstances upon the earth, and the effects of these deluges upon all life at that time. According to scientists of the present day, there is yet another deluge, consisting this time of electricity, approaching the earth. This within a few years will be procipitated upon the earth, and it is claimed will result in great benefit to humanity, because its contact with the earth will destroy injurious microbes, germs and parasites. This will cause fermentation to cease and thas produce the effect of preserving for an indefinite period of time all perishable fruits and vegetables. This will in a measure partially restore antediluvian conditions, and will produce the effect of greatly alleriating human sufferings:
Finallr, as a concluding thought, it remains to be shown that the presence of nitrogen in

The air is for the purpose of conserving another very important use. It is claimed in the Bible that there will be a resurrection of both the just and the unjust. The Savior himself said; "Marvel not at this; for all that are in their graves shall come forth". Now we take this to awean just what it says, that the dead shall return to life. But how is this to be accomplished!

Do we expect a return of their decayed bodies out of death?

By no means. We nnderstand and hold with the Bible that their bodies have become non est br reason of their "return to the dust whences they came".

But do we expect them to return as human beings:

Yes.
With flesh and bone and sinew as of yore? Exactly so.
Where will their bodies come from?
God in whose memory they are held will provide for them necessary bodies just as he did that of the first man Adam.

Now we return to a consideration of nitrogen and its further use in the air. It is claimed by chemists that a considerable portion of the human body is nitrogen. Then in the resurrection of the twenty billions of the Adamic family now asleep in the tomb, much of this elcment being at hand, long held in suspension for this very purpose, will be consumed in providing, in the general resurrection, human bodies for all now asleep in death, but who phall "come forth" "in due time". And incidentally, this process, and that sbove mentioned, of enriching the soil, will have the effect of filtering nitrogen from the air. This will restore its former pristine purity as it was in the days before the Flood. Under such a condition of atmospheric purity, man, breathing the undilated invigorating oxygen, would live approximately a thousand years. In addition the perfect fraits, resulting from increased fertility of the earth as above shown, will maintain the possibilities of everlasting life. And this is exactly what the Bible teaches, and exactly what humanity instinctively desires.

With a return of the billions of humanity from the tomb back to earth, and being surroanded by the superabundance of earth's perfect fraits of that time, disease germs having been destroyed by the descent of the electrical canopy now so close as to come almost in contact at
times, this battle-scarred earth, drenched in human gore, will in time become a veritable Garden of Eden.
Paradise, lost through Adam's transgression, will, through the merit of the Ransom, "to be testified in clue time", be restored. Burning and frozen deserts now defying the ingenuiity of man, being subdued, will be transformed into dreamlands of beauty and glory. Supplanting the marsballing of the hosts of war, with their instruments of destruction and death, will be the busy hum of productive machinery and the unarch of industry applying the comulated energy of inventive genius to the harnessing of all the hitherto latent forces of nature, and bending these into complete subjection and use for the everlasting blessing of the entire haman race. Then the billions of dollars now being applied to destructive purposes will be tarned into constructive chaninels. "Swords shall be heaten into plowshares, and spears into pruning hooks." No more uprising of "nation against nation"-there will be but one nation, a holy nation. Nor will war be learned any more; for Jehorah "maketh wars to cease from the river to the ends of the earth". Then will be realized, through the everlasting ages of eternity, the true import of the message of the angels on the hills of Judea as they sang the song of "Peace on earth, good will among men".

Wit ${ }^{\text {th }}$ this condition of perfection of the mnterial earth will come logically the perfection of man, mentally and morally, as well as phys, fally. All incentives to selfishness and greed being eliminated, by reason of earth's superabundance, the "residue of homanity" shall attain perfection in every respect. Then also "the knowledge of the Lord shall cover the earth as deep as the ocean". Then shall his "glory be revealed and all flesh shall see it together". Then shall humanity, no longer confused, "know the trath" and thereby become "free". With his reason thus restored the mind of man will again become superior to matter. Since the earth was made for man, not man for the earth, he will be able to order the geasons at will-even the "winds and the waves will obey him".

The Apostle Peter, our Lord and all the holy prophets since the world began, declare that the homan raci is to be restored to glorious perfection, and shall again have dominion over earth as its representative Adam had.

## RELIGION AND PHILOSOPHY

## Universal Peace

"On carth peace, good will tourard men."-Lule $2: 14$.

CHRISTALAS is regarded by many people as the date of the birth of the babe Jesus in a monger at Bethlehem. Whether or not the date is correct is of small importance, but the event was and is of the greatest importanct.

Bethlehem is situated on en eleration overlooking a deep ravinc, beyond which are fields where shepherds graze their flocks. Beartiful for location is this historic spot, particulariy attractive to one of poctic mind and deep reverential heart, and doubly so since the great events, recorded in Holy Writ, which there transpired nearly nineteen centurics ago. From the surrounding hills of Judæa the shepherds had brought their sheep to the ficld opposite Bethlehem and corralled them there for the night. While the others slept, one or more of the shepherds kept vigil over the flocks, waiting for the dawn of day. The atmosphere of Judxa is exccedingly rarified, and the stars shine forth with unusual beanty and brilliancy, and thus the glory of the night is enhanced.

Withont doubt these lowly herders of sheep were men of great reverence for God, men who trusted in his promises made to their father Abraham and heace were expecting the coming of Messiah. And for their faithfulness Jehorah rewarded them with a wonderful vision. While these humble watchers were gazing into the starlit heavens and meditating upon the majesty

- and expressed wisdom of Jehovah, there suddenly appeared unto them a star of remarkable hrilliancy, standing over against Bethlehem, 1. Wie called the city of David. Simaltan'-coun:- thn angel of the Lord, the heavenly messenger; appeared anto them, and the light of the glory of the Lord shone round about them. Then the shepherds were sore afraid. What man of reverential mind would not have been awe-struck at such a marvelous manifestation!

To calm their fears, the hearenly messenger sweetly said to these humble men of the fields; "Fear not: for, behold, I bring you good tidings of great joy, which shall be to all people. For unto you is born this day in the city of David a Savior, which is Christ the Lord. And this shall
be a sign unto you; Ye shall find the babe wrapped in swaddling clothes, lying in a manger." (Luke 2:10-12) Awed by this vision and thrilled with their environment, the shepherds in wonder and amazement stood speechless before the hearenly messenger. Then suddenly there appeared with this angel a whole multitade of the heavenly host, angels bright and foir; and in celebration of this marvelous erent of the ages they jorfully sang together an anthem of praise to Jehovah, "Glory to God in the highest, and on earth peace, good mill toward men".

Lons centuries and the burdens of earthly cares have effaced or hidden this glorious vision from the minds of most men who call themselves Christians; and today these words announcing universal peace to those of worldly mind sound as but a hollow mockery. Nearly nincteen centuries have come and gone sinco that heavenly messenger announced the birth of Jesus and brought a message of good tidings; and after these long years of laborious effort on the part of some men to establish ideal conditions, with dismay they witness the whole irorld rocked from center to circumference and all lindreds and peoples engaged in the strife of tongues, tumult, distress and war. Now the great mass of so-called Christendom is trusting in the god of force and violence rather than in -he God of peace and love. Millions of earth's habitants, including those who pose as teachers and preachers of the Gospel, have tarned to infidelity, disregarding the Word of God, and advise, counsel and engage in strife and violence. Alas! their faith in God and in bis precious promises is gone.

How different with those who truly love the Lord and who study to show themselves approved unto God!. Their diligent and prayerful search to know the meaning of these events past and present the Lord has been pleased to reward with a clear vision; and now they are privileged to mark the majestic onward tread of Jehovah in the unfolding of his marvelous plan. And thas anderstanding, their hearts are filled with joy; and the sweet message of that iaqvenly host resdunds through the corridors of the age, calling attention to the momentons
events that are transpiring and the even greater ones inmediately to follow. Not only do they rejoice in their own hearts, but it is the privilege of such true followers of the Master with confidence to say to the bewildered and frightened of nominal Christendom: "Behold, thy God reimeth".

And now we invite all sober-minded peoples of carth-Christian and infidel. Jew and Gentile, bond and free-to come with us while we together briefly review this beautiful Christmas story, and ascertain its meaning and significance to the groaning people of all the nations of earth. Its message of comfort is intended for all; for the angel of the Lord said: "Behold, I bring you good tidings of great joy, which shall be to all people". The time is now due for the world to begin to understand the real meaning of what occurred on that memorable morning in Bethlehem; and those who do understand and arail themselves of such knowledge will be greatly blessed and comforted in heart, mind and bode.

Why should the babe Jesus be born at all? Why mark his birth with such ceremony and jnyful expression by the heavenly host: The answer is the old, old story, which grows sweeter the oftener told; and never so sweet as now, because the time is here for its appreciation by man.

Four thousand years before the staging of this drama in the hills of Judæa, Jchovah had created a perfect pair-Adam and Eve-and provided them with a perfect home in Eden. He had endowed them with power and authority to bring forth children, to fill the earth and to control it and to make the entire earth as a garden, a glorious spot, a fit habitation for a happy and perfect race of people. To this first pair the Lord granted the privilege of life everlasting in a state of human blessedness, conditioned, however, upon a faithful obedience to his law. The wife, deceived by Satan into a violation of the divine law, in turn induced her husband to take the step of disobedience wiifully rather than be separated from her. The result of this transgression was an infliction oin the penalty of the law, which penalty is described in the Genesis account (chapter 3) ns a dying condition until death was fully accomplished, a retarn to the dust whence the Lord had taken the elements to make man.

Having judicially determined that the perfect
man should die becanse of his disobedience 10 the law, Jehovah chose, as a means of enforcing this judgment, to compel man to live outside of the perfect Eden and to feed opon the poisonous elements of the, earth until complete death would ensue. Hence he drove the two out of Eden and set a flaming sword at the garden's entrance, lest Adam might return and partake of the tree of life. For 930 years Adam battled with the clements of the earth, daily saccumbing, un'til at the end of that time he was dead.
The secret of all the suffering, sorrow, sickness and death of humankind from then until now lies in what occurred in Eden and following. While in Eden the perfect man did not exercise his power to beget children; and hence the perfect pair never brought forth clildren. It was only after andergoing the legal sentence of death, and after they had imbibed the poisonous elements of earth's vegetation, that this pair cohabited and children resulted. It is reasonable, therefore, to see that this condemnation fell upon the offspring; and that the father, now imperfect, could not beget a perfect child; hence the offspring of Adam would be an imperfect one. For this reason the Psalnist wrote: "Behold, I was shapen in iniquity and in sin did my mother conceive me". (Psalm 51: 5) And for the same reason the inspired witness said, "As by one man sin entered into the world, and death by sin; so death passed [by inheritance] upon all men, for that all have sinned". (Romans 5:12) The nltimate result of the operation of the divine law of necessity would have meant the complete extinction of the human race. Todar, instead of men living 930 years, the average life is much less than onetenth as long.

God foreknew the course that man would take; and before the foundation of the world he ontlined a plan for human redemption -and blessing. Nearly two thousand years after the humankind had wandered in the earth in sorrow and distress, Jehovah spoke to his servant Abraham, likewise an imperfect man, but one who exercised great faith in God, and to him made promise that through his seed all the families, nations, kindreds and peoples of earth should have a blessing. (Genesis 12:2, 3; 22: 18; Galatians 3:16) Later, God organized the descendants of Abraham into a nation under the name of Israel, and with that nation and people made a law corenant and from time to
time reitcrated his promise to bring a blessing to the nations of carth through the seed of Abraham. The Israelites verily believed that this promised seed was an earthly sced. The promise at one time was confined to the house of David; and when David ascended the throne the Jews thought that the time had come for the blessing of mankind. The prophets, however, foretold the coming of another and greater one; and at the time of Jesus' birth all thoughtful people of Israel were looking for the coming of the Messiah. God through his prophet had foretold that Messiah would be born in Bethlehem of Judra.-Matthew $2: 5,6$.

Here we emphasize one thing prominent in the message brought by the angel; namely, the word all. It will be marked in the examination of this and ather Scriptures relating to the redemption of man that God had promised to bless all the families of the carth, and that at the birth of Jesus the angel announced that this is glad tidings which shall be brought to all people. It is not the thought of the Scriptures that such a message would be brought to all at the same time; but that in God's due time every one of the human race would hear this message of glad tidings and would each have the opportunity of availing himsclf of the benefit of it:

The race was justly condemined to death because of disobedience to the law of God; and this judgment could not be set aside or reversed for the reason that God is unchangeable. His laws are fixed. However, such a judgment conld be satisfied loy the demauds of the law being met. In due course of time God made promise to the house of Israel, his specially chosen people, that a provision for releasing mankind from death and the effects of this judgnent would be made. "I will ransom them from the power of the grave; I will redeem them from death: 0 death, I will be thy plagues; 0 grave, I will be thy destruction."-Hosea 13:14.

The word ransom means a price esactly corresponding. A perfect man had violated God's law, and death resulicd. Therefore the only thing that could constitute a ransom or corresponding price for mankind would be the life of another perfect man, exactly equivalent to Adam while in Eden. In other words, the redemption and deliverance of the human race fror death, and its resioration to human perfection and happiness, must mtirely depend upon the voluntary submission to death of a
perfect human being - nothing more and nothing less.

At once, then, we see that none of Adam's stock could meet this requirement of the law and redcem the human race because all were inperfect, having descended from Adam. And this thought is expressed by the Psalmist, who says, "None of them can by any means redeem his brother nor give to God a ransom for him". (Psalm 49:7) Any child begotten by a member of the Adamic stock wonld necessarily be imperfect; hence the account concerning the conception of Mary and the birth of the babe Jesus shows that she conceived by the power. of the boly Spirit. (Mathew 1:18-25) Therefore Jesus was begotten not by man, bat born of a roman, and when born he was "holy, harmless, undefiled and separate from sinners". (Hebrews 7:26) When he grew to manhood's estate he was the exact counterpart of Adam prior to his disobedience. Not until we understand these things can we understand why there was so much joy in heaven amons the angelic host at the birth of Jesus. The heavenly beings had been observing for four thousand years the downward course of mankind. They had seen the great degradation and sorrow that sin had inflicted noon the homan family, and now they pereeived that Jehovah was making provision for the redemption and blessing and uplifting of all men.

That which man prizes above everything else is life; for without life nothing else can be enjoved.' The whole human race, being under the condemnalion of death, ultimately mast die. Why, then, did Jesus come to earth! Why was he borni He answers; "That the people might have life and have it more abundantly". (Jolin 10:10) He "was made flesh and dwelt among us". (John 1:14) "Forasmuch as the children are partakers of fiesh and blood, he also limself likewise partook of the same." (Hebrews 2:14) "We sec Jesas, who was made a little lower than the angels [namely, a human being] for the suffering of death, crowned with glory and honor; that he by the grace of God should taste death for cuery man." (Hebrews 2:9) Jesus limself declared that he laid down his life for the sheep. (John 10:11, 15, 16) Here he ases the word sheep to illustrate those who are willing and obedient to the rill of God, that they shall receive the benefit of his sacrifice.

And this opportunity must come to all, as

St. Panl states: "For this is good and acceptable in the sight of God our Savior, who will have all men to be saved and to come unto the linowledge of the trath. For there is one God, and one mediator between God and men, the man Christ Jesus; who gave himself a ransom for all, to be testified [to all] in due time." ( 1 Timothy $2: 3-0$ ) Here again it is observed that it is God's will that all men shall be saved from the condemnation of death and thereafter brought to a knowledge of God's provision for them, which knowledge opens to them the opportunity of accepting the benefits of the ransom sacrifice. Hence, says the Apostle, thess facts must be testified to all men in God's due time. As this testimony comes to men at different times and they understand it, they rejoice in it because to them it is good tidings, good news of a better thing for them-an opportunity for life.
Why, then, if Jcsus died on the cross nearly ninetecn centuries ago, should the human race continue to suffer! The Scriptural answer is clear. The promise to $\Delta$ braham was that in lis secd should the blessing come to mankind; and this seed must first be fully developed before the benefit of the ransom sacrifice can be exiended to all. It is important, therciore, to perceive what constitutes the seed and bow it is developed. The Scriptural proof is that this sced is the Christ, the Messial, composed of Jesus, the Head, and the church, meaning the called-out class which constitute the members of the body of the Messiah class. Hence St. Paul argues: "As' many of you as have been baptized into Christ have put on Christ ... And if ye be Christ's, the lare ye $\Delta$ braham's seed, and heirs according to the promise".-Galatians 3:27, 29.
It has pleased the heavenly Father to devote the period of time elapsing from the resurrection of Jesus until the setting up of his kingdom to the work of selecting those who would be willing followers of the Master, and who would prove their faithfulness and lojalty to him even unto death, and to whom he would grant the privilege of joint-hcirship with Christ Jesus in his lingdom. (Romans $8: 16,17 ; 2$ Timothy 2: 11,12) The selection of this class has been from among those who have voluntarily consecrated their lives to the Lord. Not every one who says, "Lord, Lord", will be of that class, bat only those who enter into a covenant with God by
sacrifice and continue thas faithful unto death These are promised a part in the first resurrection and an association with Clrist Jesus as members of the royal priesthood. Therefore we can understand the words of the Master when Lee said that only a little flock (comparatively spealing) of mankind would have this blessing. -Lulke 12:32.

The purposes of the Lord in this regard are ascertained from the words of the Apostle: "God at the first did visit the Gentiles to take out of them a people for his name. And to this agree the words of the prophets; as it is written, After this I will retarn, and I will build again the tabcrnacle of David, which is fallen down; and I will build again the rains thereof, and I will set it up; that the residue of men might seek after the Lord, and all the Gentiles, upon whom my name is called." -Acts 15:14-17.
Jesus tanght his disciples, and through them the church has been tanght, that after he had ascended on high be would return in course of time and gather unto himself the saints, and then would establish his kingdom for the puryose of blessing mankind. All Christian people have looked forward to the second coming of the Lord, and to the end of the wicked order of things and the establishment of a new and righteous order. This same thought was in the mind of the disciples when they approached Jesus just before his crucifixion and propounded to him the direct question: "Tell ns when these things shall be, and what shall be the proof of thy coming and the end of the world ${ }^{\prime}$ ' -Matthew 24:3.
The Lord Jesus answered their question, and the answer is recorded in the twenty-foarth chapter of Matthew and the twenty-first chapter of Luke. He describes the great stress and trouble that is now upon the human race. Among other things he said that there would be a great world war in which nation would rise against nation, to be accompanied by famine, pestilence and revolutions and a time of troable such as never was before; and all mankind are witnessing the fulfillment of this prophecy at this very time. Again he said in answer to the same question that there would be "upon the earth distress of nations, with perplexity; the sea and the waves [restless humanity] roaring; men's hearts failing them for fear, and for looking after those things which are coming on the
earth : for the powers of heaven [ecclesiastical systems] shall be shaken". (Luke $21: 25,26$ ) All the trouble that has afflicted the nations since the fall of 1914 has been clearly in fulfill. ment of the prophetic atterance of the Lord. To the Christian this means (and soon all the world will learn to know that this is the meaning) that the kingdom of the Lord is at hand, that Christ is present, that he is tearing away the old order of things preparatory to establishing a kingdom of righteousness and peace which shall constitute "the desire of all nations". "I will shake all nations, and the desire of all nations shall come".-Haggai 2:7.

The wars, famine, pestilence, revolutions and like disturbances that so much distress humankind do not constitute any part of the glad tidings. No one rejoices in this suffering and trouble; bat the Christian rejoices that these troublesome times are the proof foretold by the Lord that would precede the establishment of his kingdom of righteousness which would bring blessings to all the groaning creation. The message that has been preached to the people for long centories, and is yet being preached by many, to the effect that it is the Lord's purpose to save a few in heaven and to consign all the residue of mankind to a condition of endless torture, contains no glad tidings to any one of an honest heart. Surely it conld be no real joy to any person to be convinced that he would spend eternity in heavenly bliss while at the same time some one pear and dear to him would be spending eternity in torture. Such a doctrine is not tanght by the Word of God, but is the result of a distorted interpretation of the Scriptares.

The divine program, which has been developing progressively for many cer furies, has now about rentis.she point of time for the world of mankina to begin to understand and appreciate some of the lengths and breadths and heights and denths of the love of God. His inspired witness wrote: "Times of refreshing shall come from the presence of Jehovah; for he will send Jesus, who before was preached unto you; whom the heavens must retain until the times of restitution of all things, which God hath spoken by the month of all his holy prophets since the world began".-Acts 3:19-21.

The word refreshing here saggests the thought of something that makes one happy after a long experience with that which is con-
trary to happiness. The autumn season marks the dying and falling of the leaves, the trees appear bare, and the wind moans and sighs through their branches. Then follows the long, dark, cold winter, picturing in a measure the long night of soffering and death that has afflicted the human race. In the spring season the warm, gentle rays of the sun, falling upon the earth, cause the grass to spring forth, the trees to bad and leaf, followed by the blossoms and the fruit, the singing of the birds and the rejoicing of all nature because of the reviving, or coming again to life, of that which was dead. Seemingly the Apostle had such a picture in his mind when he said that times of refreshing would come at the establishment of Messiah's kingdom becanse it would mean the restoration of that which father Adam lost for himself and all of his offspring, namely, life and all the sweetness incident thereto. The perfect man Jesus, having laid down his life and thereby providing the purchase price for the human race, now returns for the parpose of ministering to mankind by giving to him the very thing that he has long desired.
Long ago the Apostle saw this and wrote: "He [God] hath appointed a day, in which he will judge the world in righteousness by that man [Christ Jesus] whom he hath ordained; whereof he hath given assurance unto all men in that he hath raised him from the dead". (Acts 17:31) The assurance here then is to every man that has lived on the earth that he must have a fair and impartial trial in a time of righteonsness, which trial is for the parpose of giving him an opportunity to render himself in obedience to the law of God and live. It means that millions who have gone into death will return again; for "there shall be a resurrection of the dead, both of the just and the unjust." (Acts 24:15) The great Master himself assures ns that all in their graves shall hear his voice and awaken to the resurrection by judgments, i. e., a time of trial and opportunity for life and its blessings. John 5:28, 29.

The work of reconstructing the human race will devolve upon the great Messiah, and that great work will begin as soon as the present trouble upon the earth has ended; for Jesus assures us that there never will be another time like it. (Matthew (24:21) Then, under his righteons reign, every one will have a chance of hearing the sayings of Jesus and then will
apply his' words, "Verily I say unto you, If a man keep my saying he shall never sce death." That Scripture, like all other eayings of the Master, must have its time for fulfillment; and no one could keep his sayiugs until first they heard them. The millions in death could not hear until awakened out of death, and the millions now on earth could not hear until God's due time and until they are told. That due time is ahout at hand.
Will that be a time, then, of rcjoicing and gladiness? The Lord through the prophet gives us a vision of that great time of blessing, saying. "The wilderness and the solitary place chall be glad for them and the descrt shall rejoice, and blossom as the rose," thus picturing how the earth itself shall begin to yield that which is necessary for the sustenance of mankind and permit him to enjoy the fruits of his labors without the intervention and oppression of the profteers. "It shall blossom abundantly, and rejoice even with joy and singing: the glory of Lebanon shall be given mito it, the excelleney of Carmel and Sharon, they shall see the giory of the Lord, and the excellency of our God."

Before the coming of that glorious day, however, the prophet infers that the peopln would become very much discouraged and without strength. He pictures them as trembling in their knees and hanging down their hands, and for their encouragenent says: "Strengthen ye the weak hands, and confirm the feeble knees. Say to them that are of a fcarful heart, Be strong, fear not: behold, your God will come with vengeance, even God with a recompence; he will come and save your." St. Paul tells us that the whole world aside from Christians are blind, and blinded by the adrersary. Many people are actually blind, while practically all are blind concerning a vision of God's plan.
The prophet then pictures the blessings during the reconstruction, saying, "Then the eyes of the blind shall be opened, and the ears of the deaf shall be unstopped. Then shall the lame man leap as an hart, and the tongue of the dumbs sing: for in the wilderness shall waters break out, and streams in the desert."

Then the prophet describes a way opened for the human race to journey back to the perfection of life, of body and mind, continaing: "And an highway shall be there, and a
way, and it shall be called The way of holiness: the unclean shall not pass over it; but it shall be for those: the wayfaring men, though fools, shall not err therein". This highway is the Messiah, who is given as a mediator between God and man, to lead man baek to the state of perfection; and the way to pass over it will be by rendering themselves in obedience to the law of the Messiah. It shall be a holy, a righteous way. No person shall be permitted to progress in wickedness, in profiteering, in oppression, in kecping the people in ignorance or filching their pockets under the pretense of preaching the Gospel or anything else; bat its object shall be the cleansing ancolessing of the people, and it shall be so clear and plain that every man can understand it. "No lion shall be there"; that is to say, no monstrons beast, such as czars, beastly governments, oppressing corporations, or ecelesiastical, political or financial systens. "Nor any ravenous beast [government of oppressive violence] shall go up thereon, it shall not be found there; but the redeemed shall wall: there." The earth and everthing in it shall be made conducive to the uplifting and blessing of mankind.
Having in mind; then, that the Apostle assures us time and again that Jesus ransomed the entire human race, all of them, the prophet continues: "And the ransomed of the Lord shall return [meaning they shall return from the land of the enemy, from death and from their bondage in blindness and ignorance and superstition], and come to Zion [the Messiah] with songs and everlasting joy upon their heads: they shall obtain joy and gladness, and sorrow and sighing shall flec away". (Isaiah 35) Indeed then all shall know the truth of the message that the angel brought to the shepherds as they watched their flocks-good tidinge of great joy unto all.
Mrssiah's kingdom will establish a uitersal peace. As the prophet declares, when his kingdom is estallishell, then the nations shall come and say, "Let us go up to the mountaiu" [kingdom] of the Lord, and he will tearh us of his ways, and we-will walk in his pains. . . . And they thenll beat their swords intn plowshares, and their spears into pruninghooks: nation shall not lift up a sword against natic:, neither shallthey learn war any more. But they shall sit every man under his vine and under his fig tree; and none shall make them afra 'd".-Micah 4:1-4.

To assure such a lasting blessing will require, of course, nothing short of a perfect ruler. Then the earth will have such, for "the government shall be upon his [Messiah's] shoulder; and his name shall be called Wonderfol, Connseller, The mighty God, The everlasting Father, [Life-giver], The Prince of Peace. Of the increase of his government and peace there shall be no end".-Isaiah 9:6,7.

To the Christian, therefore, who has a clear vision of the divine plan and who appreciates the time through which the world is now passing this should be the happiest Christmas he has ever spent, because by the eye of faith he can see the Sun of Righteousness rising with healing in its beams, driving back the great dark night of suffering, tumult and trouble, preparatory to the healing, blessing and uplifting of the human race, back to the perfection of life, liberty and happiness. The incoming of this glorious time means the beginning of the Golden Age-a time of rejoicing for all who love righteonsness.

## Juvenile Bible Study

MAN'S highest duty and privilege is to glorify God. One who loves and obeys the great Creator loves and obeys rightcousness, makes a better citizen and a greater benefactor to mankind. To love and obey Jehovah one must know him. How can we know him except through his Word, and how can we know and understand his Word unless we are taught 9 If it is proper and necessary to send our children to the public schools that they there may be tanght concerning the selfish things of this life, with stronger reasoning is it proper and necessary that they be tanght concerning the things that have to do with their eternal welfare and happiness.

The Biblical education of children, we believe, - has been sadly neglected. Every parent owes a duty to his own child and a corresponding duty to every other child to whom he can render aid. In view of the time of great stress now npon the human race, is it not high time that we take some positive action toward the instruction of the children concerning the greatest thing about which they should know, the Word of Godi We believe that all parents, whether Christian or not, desire to see their children grow up in righteonsness and trath. Becanse of the longfelt need in behalf of the children, The Goudes

Ags inaugurates a children's Bible stady department. There is no desire or purpose to teach the doctrines of any sect or system; but the sole purpose is to instract the children in the Bible. To do so we have arranged this stady in question and answer form, propounding the questions and briefly answering, citing the Scriptures where the proper Biblical answer may be had. We suggest that the parents propound these questions to their children and aid them to locate in the Bible the answer, thus familiarizing the child (and incidentally the parent) with the texts of the Bible and enabling them to get some insight into the glorious character of Jehovah and the Lord Jesns.

We suggest that the child be given one question each day and that in addition to the answer here given, it be encouraged to jook up the Scriptures cited and any other Scriptores that, with the aid of the parent, it might find bearing on the question: As this is a primary study, we therefore begin with the subject

## $T H E B I B L E$

1. What is meant by the voord Bible9

Answer: A book that contains the Word of God as expressed to man, and has reference to all the sixty-six books collectively, contained in what is commonly accepted as the Holy Scriptures.
2. What is the Bible?

Answer: It is an expression of God's will toward man and an outline of his plan concerning the haman race, given for man's instraction. -John 17:17; 2 Corinthians 4:2.
3. Are que invited to study the Bible?

Answer: Yes; Jehovah says to us: "Come, now, let us reason together' (Isaiah 1:18) ; and "Study to show thyself approved unto God". -2 Timothy 2:15; John 5:39; Denteronomy 29:29; Revelation 1:3; 1 Peter 3:15.
4. Should we expect to urderstand the deep things in the Biblef

Answer: If we stady it with a reverential and prayerful desire we may understand them. "The reverence of the Lord is the beginning of wisdom." (Proverbs 1:7). The plan of God is a secret which he has promised to reveal to those who reverentially seek to understand it. "The secret of the Lord is with them that fear him; and he will show them his plan"-Psalm 25: 14; 1 Corinthians 2:10.
5. Can everybody understasd the Bible9 Answer: They could, if everyone would com-
ply with God's rules. Certain portions of the Bible are dae to be understood at certain times; but even when those times come, he will not permit the wicked to nnderstand, bat the wise shall nnderstand.-Daniel $12: 10$.

## c. Who can understand the Bible?

Answer: The inrst thing essential is an honest desire to understand it. (Luke 8:15) Then one must be wise aiter God's manner of wisdom (Daniel 12:10; James 3:17); and that kind of wisdom means that he recognizes Jehovah God as the great First Cause, the Creator and the Giver of all good gifts. Then one must search the Scriptures and stady them.-John 5:39; Jeremiah 29:13; Acts 17:11; 1 Corinthians 2:10.
7. Is the Bible intended to be understood; or is it a book slrouded in mystery, only for one class to understand
Answer: It is a reasonable book; for God invites ns to reason with him (Isaiah 1:18; Job 13:3) ; and the Bible gives the reason for God's dealing with man and also the hope that man has. (1 Peter 3:15) We should reason when we study the Scriptures or talk to others about them.-Acts 17:2.
8. If reasonable, then why cannot everybody understand the Bible:

Answer: Because not every one is honest, and the dishonest will not be able to understand it. (Luke 8:15) Some do not desire to be righteous and good; hence they do not understand. (Matthew 5:6) Some may be honest and desire to be righteous, but do not stady. (2 Timothy 2: 15) Some are too wise in their own conceits concerning earthly wisdom and do not give God credit for knowing and stating it in his Word. (Matthew 11:25; 1 Corinthians 1:19) And some are too wicked.-Daniel 12:10.
9. Do the great, the wise, the mighty and the noble and educated have any special advantage in understanding the Bible, and is it necessary to have a finished college education in order to understand it?

Answer: No; on the contrary, the vision (which means an understanding of God's Word) is hid from many who are wise after the manner of earthly wisdom and is made known and understood by those who humbly and honestly seek to understand, though they may be poor and have little education. -1 Corinthians 1:20, 21, 26-29.
10. What is necessary for one to do to understand the Bible?

Answer: First, he must have an honest desire to understand it and a reverence for Jehovah as the great eternal One, the Maker of all things; he must have faith in God. "Without faith it is impossible to please him." (Hebrews 11:6) Second, he must have a sincere desire to know the truth and tell the Lord he is willing to do his will--Proverbs 1:7; John 14:26; 1 Corinthians 2:12; Psalm 25:14; Romans 8:14.
11. Is it profitable to study the Eible and if C so, in what way?

Answer: See 2 Timothy 3:15-17; John 17:17.
12. Does a knowledge of the Bible enable one to do better?

Answer: See 2 Timothy 3:16.
13. Is the Bible written entirely in plain language, or is some of it in symbols?
Answer: Some of it is written in plain phrase, while many parts of it are written in symbolic language, some in parables and dark sayings. -Mark 4:32; Matthew 13:35; Revelation 1:1-3.
14. Why was not the Bible written in plain langaage so everybody could understand it, and without symbols or darl sayings
Answer: God's purpose is to reveal an anderstanding of his plan gradually. For instance, he had the prophets write many things which they could not understand. They merely served as clerks or writers to make a record of things they saw. (Daniel 12:8) The prophecy of the Bible is history written before it happens. Jehovah foreknew everything from the beginning to the end (Acts 15:18); and he cansed it to be written in such a way that it could not be understood until the prophecy is follilled by the events taking place. Then he expected the people to understand it.
15. Can you give an instance in which the Lord foretold something to happen that we novo see9
Answer:' Yes: He had Daniel record many centuries ago that the time rould come when there would be rapid traveling across the land and a great increase of knowledge in the world, which has come within the last hundred years. (Daniel 12:4) There are many instances of this kind in the Bible, as we will find from time to time in these studies. The Lord revesled throigh another prophet a description of the locomotive and railway train, many centuries before any man ever thought about inventing or bnilding one. We will give the description of this in some later lesson.

## TRAVEL AND MISCELLANY

## Service for Travelers

$\mathrm{A}^{\mathrm{T}}$ THE foundation of the swift, smooth travel of today is an intricate system of coördinated service. Without the surrender of the individual railroad worker's will to that of the system, travel would be both difficalt and dangerous, and civilization would sink toward the level of the semi-barbarons.
Every railroad man is inspired with the ideal of as mearly perfect service as he can render. Scrvice by a worker the public scarcely hears of, the car inspector, makes sure that no car leaves the terminal in a condition that might canse an accident. The engineman's service calls for oninterrupted watchfulness and thoughtfulness over every rod of track and at every signal, to make safe delivery of the cargo at every stop.

Safe and efficient service by the coudactor takes a personal, sincere interest in the passengers, watches conditions, observes the dispatcher's orders, and sees to the safety and as far as possible the comfort of the handreds temporarily in his care. Service by the shopman takes care that the rolling stock is in us good condition as possible in the time allowed for the adjustment and repair of engines and cars and is an important contribation toward the efficient operation of the system. The railroad clerk's service contributes in some measure to the possibility of the management's having the records which make for the efficient operation of the system

There is no place where lack of the spirit of service shows more than in the conduct of the executives. Their spirit travels through the porsnnnel, and manifests itself in the acts of ev: ; Eriploye of the road. Governing the entire systien is the service rendered by the bankers and financiers who act as directors, appoint executives, control policies and supply the funds required in a large way to parchase materials, equipment and labor for the best maintenance and operation of the system.

Modern travel is the resultant of the scrvice of thousands working separately but all to a common end. In a successful railroad it represents the best that can be done for the money to secure the safe and comfortable delivery of passengers and freight over mile after mile of
track to the destination. It is an exemplification of the Biblical maxim that "whosoever will be chiefest, shall be servant of all". (Marz 10:44) Presumably it is true of the personnel of a system, from bankers down, if unfaithful, that they are liable to hear the other Biblical injunction, "Cast ye the unprofitable servant into outer darkness: there shall be weeping and gnashing of teeth".-Matthew 25:30.

## The Big Bean

CO ACCUSTOMED are we to the bean in a . shell that it rather surprises ns to see in a display window a bean two or three feet long. This monster among beans is a butter bean originated in Japan.
One seed of the new bean may grow into a plant 90 or 100 feet long bearing 100 beans, each up to four to six feet long and weighing fen, twenty or thirty pounds, or more. It would take a large and hungry family to dispose of one twenty-pound bean at a meal or even in a day. Just how much the big bean might help out the cost-of-living problem may be figured out by the carious by estimating how many might be raised in a city back-yard.
The Japanese bean first began to be used in this country after the war got under way, and is now being widely used as a staple food. It is said to be good eating when cut and fried like egg plant, or boiled and served witit a white sauce.
If this is a specimen of how the field is to "yield its increase" in the Golden Age, what wonderful things may be expected when the better order is fully under way!

## Disecse Aggravates Shortage

THE milk shortage in Switzerland is made worse by the foot-and-moath disease, which is epidemic. On account of danger to the people, dances and other assemblages of the people, including funerals, are greatly restricted in the attendance permitted. No milk is allowed to reach condensed-milk factories or milk-chocolate plants; and the milk rations of children are reduced thirty per cent. Cattle markets are closed, and farmers from infected districts are forbidden to enter the towns.

# GOLDEN AGE CALENDAR <br> DECEMBER 24 fO JANUARY 6 

 Greek Ormplad Era: 2J70 Japuncse Era; 1035 Mohammedan Era; 1Hth year of ladepeodence of the Enited siater.
Srane: Joming; Mereary, Fenus and Mare to Dec. 31; Jupiter to Jen. 1; Saturn. Erentag; Venus, kars and Jupiter after Jan. 1.

Derember 24. Wedncricy
Mobammedan montl Rabin II bexine: 8nn rines

 5: 42 p. m. AXew lork) inds, 1rcuinent linion promike a prenple seace by garcement of everstoriy concerned in the nettement, Serious conl alintizfe in Germany: Allies slecide that Thiskia hermelp mont bring order nut of chaos, and are in acenrd in refuking to undertate nny infre military expeditiou into Russia: A pethinn mith 2a, coo nignatirex aplpeating for reicase of 300 minacientimik olijortona from the Fort Leaveprorth militat
given to Secrelary Baker.

## December EF, Thursday

Chriatmas Dey: 17'G, Battle of Trenton (25.2a): j918, Russian princes and Czarist offirers basing hopes on Koichat abil Jenikine, ank 1,31 (Hin Alliet troops ak ennuth to "mare the country": Germany returns G,0110,00n,000 francs ninrth of arocis: inken from French banks: Chaplain j;dron makes a report on the uliened inefficiency and profteering of the 1. M. C. A. in Frazie.

## Deccmber 86, Friday

Lut after Chrintmas, Cilina, Denmark. Dotrh Fiet Indin, Germany. Nelheriamin. New Zcalknd, Swifzerland: Boxina jiay. Australia, linnz Koug. lumaicu, J:hodeaja: St Stephen's Day. Austria, Lelpium, F'inland. Hungery. Italy: 10ik. Pape jlenedict kindly proniser his aid and nuppori to ibe recision of tha Fersailles Council: I'rnifeers use airtilanes in rake their edormolir profiss from Germary to Nwitzeriand: Fierman spariacan forces scize the Prussian Wiar Ministry.

## Decesmber 2\%, Gaturday

Second Day after Christmas, Testern Aumtralin: 191S, Berlin Workmen'a and Soldiers' Council convenes for purposes of reculustraction: Interiention in Kus-
 ennecrning terme of pence: A find of $\$ 1.000 .000 .000$ is declared necessary to meet the 1910 deficiency in the $\$: 2 \mathrm{E}$-a-bushel Goverament price of wheat

## December 28. Eundey

Proclamation Day, Aurtralla

## December 50 . Yanday

Bank Folidars, Costn Mica (29-31): 1018. Fresideat Wilson announces that 'Ht is the conscience of tberorld we now mena to. place upon the throne hurdreds of telegrms protenting sgainit Ecepins American bose in Russia.

Dccember so, Tueaday
1017, Coldest Nest York day In thirtr-three reark, thirteen degreas below mero; 1918. draft agreement made between Calief statrs. Cinada. and Gireat Srituin: Preaident Wilson declares to j,000 British WorkDinn, "If the future had nothing for as but a new aticmpt to leep the Forld at the riebt polse by a balunce of power. the Dilted Stater would take no Anicrat in it, vernuse she will join no combination of power that is not a combinatiou of us all"; of ulliances celled the lalonce of porrer. I bould not fie telling: the truth, if $T$ faid I had always bepm in Ite telling: the iruth, if raid I had always been in agreemun vith him [Winoul on all points: Smere
 armanecti. -

## Derewber 21. Tredncaday

Now Sear's Ere. Rwitzerlnnd: Mmorial Dar. Portugal: Irince Horiy* IIrthday. Buigaria (Det celelugated this thinel: 1017. Gerainne announres porewiticted kubmarime whriare in rertain gonok; jojx.
 Lenslicviki revolt ewlahlishes temporary Bolkhevik Tenubic sintes sistes $\$ 1 \mathrm{~s}, 1 \mathrm{co}, 000,000$.

## January 1, 1920, Thereday

New Tear'p Das: . Nexinning of the jear 4714, Julinn Ern; and of the vear 1957. Epanigh Era: Jewinl Feant of Tebet: Clirintman Day. Bulmaria: Thineuc New Xear: Kprine Holinlay. Chine, Dutch Hiant Indies, Hawall, Ilonf Kong: Independence Das. Halt : Kinn'm Jirthday. Sisna: 1Mn1, Union of Great Britnin and Ireladd: 1HGB. Libcola': Emanefpation Yrociamation: 1018, General Nareh mede Cblef of Stall. Vnlted States Army: Bolsherlk eeize RoumanIan khipw in Black Sea and capture Odexan: Thatars procinim (Crimen Republic: senste for Federwl control of railroods untll cirbteen monthr after the war: 1015, Fope Lenedict'm New Year'm mearage to Americe benuroiently hopes the Prace Conference may reault in u new wnrla order, with a Lengue of Niations, conseription almlikhed, and tribupain established to aljust international disputes; Prealdent Wileon en routc to Isaly to sce tie king, the popen and the Mcthonlist College: Irance uroposen to asmope the mandete for Armenia, Syria and Lebanon;. Fainer'a palace damaged $\$ 1,500,000$ by theft and vandulian.

## Januery 2, Friday

Malin Shivarati Day. Indin; Arhor Day. Ariseza: Furifiration Uny in Roman Catholice countries; 1815, Christinn IPepplér Party in Germany protests asainst legisintion "opposiar jiberty in parochial schools": Prejident Wilson's journey throuch Italy is "Jike a triumpual procession"; Senstor Jolinson proteats aginant more shedding of blood of American bors in Itussia.
January s, Saturday
Carnival Day, Frrpt; En Bles Dey. Paragrap: Lundi Gran Lar. Helgium. Jrance: Monday befora Jent Caraival, Lolivia, Honduras, Perv: 1917, United Siates severs diplomatic relations with Germany and disminess Ambaxeador Beraptort : 1019, Promincat britons petition relcase of 1,500 conscientious objec: tors in Pritish prisonk; Colombia asis United states to pay the $\$ 25,000,000$ due ber through the launching of the Janama Republic ander the Roosevelt rexime: The anthorities and an immense crowd fire Iresident Whion an enthusiastic welcome; he amporneen thet the task of the Peace Conference in "to organdue the friendship of the worid," and not to erablish the balance-ol-power principle; be diseusben matters with Pope Lenedict; he cables for $\$ 100,000,000$ to fead Europe: Reqr Admiral Rodman recommends the devtraction of the surrendered Germen war abips (which recommendation the Gernans followed later): Turks berin klling Armenians.

## Jonwary t, Svidey

Jantary 6 , Hondey
1919. Special propagandi azents aro placed on Americen war shipe to combat anti-lsritimh propasende; ltoumanian Jews are granted full citisemsilp anghts.

Jentary 6, Tweaday
Chrletmas Day, Hussia, (C-S): Eplphany Dag. in Roman Catholic countries; 1015, Geapva und Millan Give President Wifron a iumultuons greeliny: Congress appropriates the $\$ 100,000,000$ "to revictual Furope"; Germany announces that it is Becesary for her to "interrone encrpetically (agalant the Ruskian Bolshevimi) by takios diplonatic and military measurcs": 1'residebt Paderewili of Poined pleadt for Alliex help ageinst Holcherism; The Nintlonal Securtiy Leanue plans an extensite poatwar cm. paigy against Boisherism ; Theodorc Roonerelt dis.


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