# MAP SHOWING WESTWARD MOVEMENT OF THE POPULATION'S CENTRE.



# The New Gentre of Population in the United States &

The census bureau has declared Columbus, Ind., the centre of popula-tion of the United States. Columbus is in Bartholomew County, on the east fork of White River, in the finest farming land in Indiana. The city has 8130 inhabitants, an increase of 1369

since 1890.
Since 1890 the centre of population of the United States has shifted a little to the north and a little to the west. It is still in the State of Indiana, not far from Columbus, the capital of Bartholomew County, in the southern central part of the State. On the old pivotal point arises a monolith monument erected there May 10, 1891, by the Chicago Herald. On one of the sides of the column is the following inscription:

CENTRE OF POPULA-TION OF THE UNITED STATES. 85 deg. 32 m. 53 s. W. Long 39 deg. 11 m. 56 sec. N. Lat ERECTED BY : THE CHICAGO HERALD. :

This monument was dedicated with elaborate ceremonies by the people of Columbus and the contiguous country. Eloquent addresses were delivered by notable Indiana orators and lively interest war felt in the event by the entire Hoosier State. The centre was then about twenty miles east of Columbus. It is now about seven miles north of the same city. Hence it is moving north and west.

In time, with the great increase in population which is coming for the Northwest, it may shift to Chicago. It is by no means impossible that changes in the growth of the population will bring the centre, even if it is carried west of the west shore of Lake Michigan, back to Chicago, where it will remain fixed indefinitely.

The centre of population is the centre of gravity of the population of the country, each individual being assumed to have the same weight. The method of determining that centre is as fol-



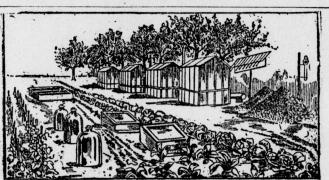
MONUMENT AT THE CENTRE OF POPULA

lows: The population of the country is first distributed by "square degrees, tive parallels and meridians is design nated. A point is then assumed tentatively as the centre, and the corrections in latitude and longitude to this tentative position are computed. In 1890 the centre was assumed to be at the intersection of the parallel of 39 degrees, with the meridian of 86 degrees west of Greenwich. This would have made the centre of pop-ulation of the United States just two miles due north of Seymour, in Jackson County, Ind. From this assume base the verifications were made and

ompanying map its unwavering march dition. Young plants of a trifle over toward the west, with occasional dips to the south and north is shown. In 1790 it was east of Baltimore twenty miles. In ten years it had moved forty miles westward. The anexation of Louisiana brought it south and west, and in 1820 it was sixteen miles north of Woodstock, Va. In 1840 the pioneers of the West brought it north, and in 1850 it had moved south again. Texas had come into the Union. The growth of the great West had switched tt back to the North in 1860, and it was near Chillicothe, Ohio. War reduced the population of the South in the decade between 1860 and 1870, and the centre moved north near to Cincinnati. In another decade it had cleared Cincinnati in its westward progress, and in 1870 ft had settled in central southern Indiana.

The past ten years has carried the westward about twenty miles and northward about seven miles.

an inch in height were planted on the same day and in the same manner in all of the four houses, and were fully attended to. After three vents a notable difference was to he seen. Under the blue glass the plants did not die off, but neither did they show any signs of growth. In the white house they were well developed and had grown to an average height four inches. In the green house the plants were a little etiolated-that is to say, they showed instead of the normal green color, a yellow-white color, but their development had been magnificent, their height averaging six inches. The greatest development, however, had taken place in the red house where the plants not only showed their usual normal color, but had reached a height of seventeen inches—that is to say, fifteen times the original size, and blooming splendidly. marion then took two other plants and There is no reason to b lieve that it attained almost the same, or, at least,



GARDEN WHERE FLAMMARION CONDUCTED HIS EXPERIMENTS IN GROWING PLANTS UNDER DIFFERENT COLORED GLASS.

will not continue on its course with the sun and shift to the north until it settles near Chicago, there to remain.

\*\*\*\*\*\*\*\*\*\*\*\*\*\* RED GLOW MAKES PLANTS GROW

Flammarion's Investigation of the Influ-ence of Various Kinds of Light on Vegetation. £888888888888888888888

The experiments in regard to the influence of the different parts the sunlight upon the growth of plants have been carried on for sever al years, especially by the famous botanist Sachs, who proved that red rays of the sunlight especially favored the growth of plants and flowers. Such investigations have now been again taken up by M. Camille Flammarion, a celebrated French astronomer. Flammarion established, in connection with the Observatory at Juvisy, near Paris, an experiment station in the form of a small garden, as represented in one of the cuts, where he studied the matter and conducted his experiments. A report recently published contains some interesting points. Flammarion the double-sides bell-shades which were filled with colored solutions, and at the same time he provided beds, covered with colored glass tained in four little hot houses, one of which is covered with ordinary window glass, and the other three with blue, green, and red glass. The glass used for these houses was carefully examined, and only those pieces taken whose intensity admitted only mon-achromatic light. Heat and all other conditions are the same in the four The screen-like device shown in the other cut represents a number of thermometers made of colored glass - while in the extreme right is a radiometer for the observation of the intensity of the light. Flammarion first selected for his first experiments a plant from which, through its peculiar forms of growth, we can judge, at any time, of its healthy condition.



DEMONSTRATING THE INFLUENCE LIGHT ON VEGETATION.

This was the Mimosa pudica, the well the true centre was located. | known sensitive plant whose leaves act only upon exterior irritations when been s'eadily westward. On the act the plant is in a perfectly normal con-

very similar results. carried on with strawberries showed also the same results; under the red light they developed marvelously. It will readily be understood that these experiments, especially with regard to valuable, rare plants, are of the highest value.-Philadelphia Record.

Gas by the Can.

Gas by the can is a Parisian novelty, according to Sterling Heilig's letter in the New York Press. These gas fountains-using the word

in the French sense-are long, narrow metal boxes, standing upright, of solid construction, to hold compressed illuminating gas, that by means of rubber tubes are led to incandescent burners by way of movable lamps like those that stand on centre tables in America.



OPENING A CAN OF GAS.

The gas boxes, sold to the consumer at \$5 each, require only to be taken home and set up on shelves. Three form the regulation "battery" for a moderate-sized house, lighting the three rooms which the French light brilliantly, the dining room, the antechamber and the kitchen.

One of those bidons, or gas boxes represents a provision of about 1000 candle hours, which means ten candles during 100 hours, or twenty candles during fifty hours, and so on When the first bidons are empty the company exchanges them for full ones at a dollar apiece.

# Where to Be Good.

It was a Payne avenue car, rather crowded, too, on last Sunday night. one corner sat two little urchins, taking up as little room as possible Indeed, they occupied about as much room as one adult. The boys were evidently of the class which run about the street on weekdays in bare feet. They could not, however, be included "bad boy" class. They were evidently not used to sitting quietly and orderly, and fidgeted about in real distress. Their eyes roamed from the floor to the people, and back to the floor again. Finally one said to the other, in a confiding whisper: "Golly, but ye have to be good in a car, don't ye?"-Cleveland Plain-Dealer.

# DR. TALMAGES SERMON

SUNDAY'S DISCOURSE BY THE NOTED

Subject: Lack of Patience-Faith, Hope an Charity Bloom in Many Hearts Where the Grace of Patience is Wanting—Pity Rather Than Condemn the Erring.

Charity Bloom in Many Hearts Where the Grace of Patience is Wanting—Pity Hather Than Condemn the Erring.

[Copyright 1800.]

WASHINGTON, D. C.—This discourse of Dr. Talmage is a full length portrait of a virtue which all admire, and the lessons taught are very helpful; text, Hebrews x, 36, "Ye have need of patience."

Yes, we are in awful need of it. Some of us have a little of it, and some of us have none at all. There is less of this grace in the world than of almost yother. Faith, hope and charity are all abloom in hundreds of souls where you find one specimen of patience. Paul, the author of the text, on a conspicuous occasion lost his patience with a coworker, and from the way he urges this virtue upon the Hebrews, upon the Corinthians, upon the Chossians, upon the Young theological student, Timothy, I conclude he was speaking out of his own need of more of this excellence. And I only wonder that Paul had any nerves left. Imprisonment, flagellation, Mediterranean cyclone, arrest for treason and conspiracy, the wear and tear of preaching to angry mobs, those at the door of a theatre and those on the rocks of Mars hill, left him emaciated and invalid and with a broken voice and sore eyes and nerves a jangle. He gives us a snap shot of himself when he describes his appearance and his sermonic delivery by saying, "In bodily presence weak and in speech contemptible," and refers to his inflamed eyelids when, speaking of the ardent friendship of the Galatians, he says, "If it had been possible, ye would have plucked out your own eyes and have given them to me."

We all admire most that which we have least of. Those of us with unimpressive tisage most admire beauty; those of us with discordant voice most extol musical cadence; those of us with unimpressive tisage most admire beauty; those of us with discordant voice most extol musical cadence; hose of us with hands tremulous with the agitations of a lifetime, writes of the "God of patience" and of "patience of hope" and tells them to "follow after patience," and s

The recording angel, making a pen out of some plume of a bird of paradise, is not gong the puty to write opposite your analysing applaudatory. All your sublime equilibrium of temperament is the result of worldly success. But suppose things mightily change with you, as they sometimes do change. You begin to go down hill, and it is amazing how many there are to help you down when you begin to go in that direction. A great investment fails. The Colorado silver mine ceases to yield. You get land poor; your mills, that yielded marvels of wealth, are eclipsed by mills with newly invented machinery; you get under the feet of the bears of Wall street. For the first time in your life you need to borrow money, and no one is willing to lend. Under the harrowing worriment you get a distressful feeling at the base of your brain. Insomnia and nervous dyspepsia lay hold of you. Your health goes down with your fortune; your circle of acquaintances narrows, and where once you were oppressed by the fact that you had not time enough to return one-half of the social calls made upon you now the card basket in your hallway is empty, and your called calles made upon you now the card basket in your hallway is empty, and you can have if you will accept it. You have reached that stage yourself. Now you understand how people can become pessimistic and cynical and despairful. You have reached that stage yourself. Now you need something that you have not. But I know of a re-enforcement that you can have if you will accept it. You der somes up the road or the sideway on any of the your will be the your and after any of the your and you can have if you will accept it. You have now the your will be your and you can have if you will accept it. You have now the your will be yo

the geologist replied, "Yes, and you might say millions of years, for no one knows but the Lord, and He won't tell."

If it took so long to make this world at the start, be not surprised if it takes a long while to make it over again now that it has been ruined.

The Architect has promised to reconstruct it, and the plans are all made, and at just the right time it will be so complete that it will be fit for heaven to move in, if, according to the belief of some of my friends, this world is to be made the eternal abode of the righteous.

The wall of that temple is going up, and my only anxiety is to have the one brick that I am trying to make for that wall turn out to be the right shape and smooth on all sides, so that the Master Mason will not reject it, or have much work with the trowel to get it into place. I am responsible for only that one brick, though you may be responsible for a panel of the door or a carved pillar or a glittering dome.

So we are God's workmen, and all we have to do is to manage our own hammer or ax or trowel until the night comes in which no man can work, and when the work is all completed we will have a right to say rejoicingly: "Thank God, I was privileged to help in the rearing of that temple! I had a part in the work of the world's redemption."

Again, we have need of patience under wrong inflicted, and who escapes: it in some form? It comes to all people in professional life in the shape of being misunderstood. Because of this, how many people fly to newspapers for an explanation. You see their card signed by their own name declaring they did not say this or did not do that. They fluster and worry, not realizing that every man comes to be taken for what he is worth, and you cannot, by any newsy aper puff, be taken for more than you are worth nor by any news-paper depreciatio be put down. There is a spirit of fair ss abroad in the world, and if you are a public man you are classified among the friends or foes of society. If you are a friend of society, you will find plenty of adhe

your patience augmented by the consideration that the misfortunes of this life must soon terminate.

This last summer I stood on Sparrow hill, four miles from Moscow. It was the place where Napoleon stood and looked upon the city which he was about to capture. His army had been in long marches and awful fights and fearful exhaustions, and when they came to Sparrow hill the shout went up from tens of thousands of voices, "Moscow, Moscow!" I do not wonder at the transport. A ridge of hills sweeps round the city. A river semicircles it with brilliance. It is a spectacle that y au place in your memory as one of three or four most beautiful scenes in all the earth. Napoleon's army marched on it in four divisions, four overwhelming torrents of valor and pomp, down Sparrow hill and through the beautiful valley and across the bridges and into the palaces, which surrendered without one shot 'f resistance because the avalanche of troops was irresistible. There is the room in which Napoleon slept, and his pillow, which must have been very uneasy, for, oh, how short his stay! Fires kindled in all parts of the city simultaneously drove out that army into the snowstorms under which 95,000 men perished. How soon did triumphal march turn into horrible demolition!

To-day while I speak we come on a high hill, a glorious hill of Christian antising.

ition!

To-day while I speak we come on a high hill, a glorious hill of Christian anticipation. These hosts of God have had a long march and fearful battles and defeats have again and again mingled with the victories, but to-day we come in sight of the great city, the capital of the universe, the residence of the King and the home of those who are to reign with Him for ever and ever. Look at the towers and hear them ring with eternal jubilee.

Look at the house of many mansions, where many of our loved ones are. Behold the streets of burnished gold and hear the rumble of the chariots of those who are more than conquerors. So far from being driven back, all the twelve

where many of our loved ones are. Behold the streets of burnished gold and hear the rumble of the chariots of those who are more than conquerors. So far from being driven back, all the twelve gates are wide open for our entrance. We are marching on and marching on, and our every step brings us nearer to the city.

At what h... we shall enter we have no power to foretell, but once enlisted amid the blood washed host our entrance is certain. It may be in the bright noonday or the dark midnight. It may be when the air is laden with springtime fragrance or chilled with falling snows. But enter we must and enter we will through the grace offered us as the chief of sinners. Higher hills than any I have spoken of will guard that city. More radiant waters than I saw in the Russian valley will pour through that great metropolis. No raging conflagration shall drive us forth, for the only fires kindled in that city will be the fires of a splendor that shall ever hoist and never die. Reaching that shining gate, there will be a parting, but no tears at the parting. There will be an eternal farewell, but no sadness in the utterance. Then and there we will part with one of the best friends we ever had. No place for her in heaven, for she needs no heaven. While love and joy and other graces enter heaven, she will stay out. Patience, beautiful Patience, long-suffering Patience, will at that gate say: "Good-bye. I helped you in the battle of life, but now that you have gained the triumph you need me no more. I bound up your wounds, but now they are all headed. I soothed your bereavements, but you pass now into the reunions of heaven. I can do no more for you, and there is nothing for me to do in a city where there are no burdens to carry, Good-bye. I go back into the wor! from which you came up to resume my tour among the hospitals and sick rooms and bereft households and almshouses. The cry of the world's sorrow reaches my ears, and I must descend. Up and down that poor suffering world I will go to assuage and comfort and susta

### THE GREAT DESTROYER

SOME STARTLING FACTS ABOUT THE VICE OF INTEMPERANCE.

no Will Volunteer?—A Collection of Tragedies, Showing What an Awful Account the Rum Seller Will Have to Give at the Bar of God.

to Give at the Bar of God.

Who is ready, who is willing? Who will volunteer?
Who will join the gath'ring army? Who the call will hear?
Right and truth against the evil must prevail;
If we trust our mighty leader, we shall never fail.
Faithful soldiers now are needed on the temperance field who are always firm and dauntless, who will never yield.
Who are never faint and fearful when the foe is near;
Such are needed in our army, who will volunteer?

—Temperance Banne—

-Temperance Banner

The Rum Demon at Work.

A young man who is now serving a term in State prison for homicide told me again and again, with tears in his eyes, how he committed a crime while in a condition of insensible inebriety that forever brands him as a murderer, writes the Rev. Josiah Monroe, in the New York Witness.

All he can say now is that when the deed was done he was insanely drunk, and did not know what he was doing. But the law takes no such excuse and holds him responsible for the crime, whether he was aware of it or not.

Oh, this cursed rum that makes so many maniacs and idiots, that sends men to the gallows and fills the death chamber. That robs children of their parents and wives of their husbands. That takes the bread out of the mouths of helpless infancy, and steals the clothes off the backs of the infirm and decrepit. The sacreligious despoiler of the dead; the desolator of the home. The ruin of tens of thousands of all classes, rich and poor high and low.

Recently I met the father of this young man of whom I sheak. He looked patriarchal. His son's disgrace added ten years at least to his life. He was downcast, grieved, mortified, and had been praying for death to come to his rescue, but it did not come. With the Psalmist he had cried many a time. "Would God I had died for thee, my son!" But it was too late.

But what about her who was his best and earliest friend—his mother! She took to her bed at the beginning of the trouble, and became a poor, nervous, chronic invalid. Oh, what misery, wretchedness and disgrace rum brought upon several families, all related to this young man! How it blasts, blights and eternally ruins the most promising life!

Last December an intelligent man, about forty years of age, was discharged from Dannemora Prison, but the great ion gate was hardly closed upon him before

Last December an intelligent man, about forty years of age, was discharged from Dannemora Prison, but the great iron gate was hardly closed upon him before he was arrested again for a crime committed several years ago, and, strange to say, one which he had already forgotten. The man had come from a respectable family in New York City, but on account of his long criminal career they disowned him. He felt greatly mortified over this arrest, when he thought he was a free man.

arrest, when he thought he was a free man.

After coming to the city he wrote a very pathetic letter to one of the judges in General Session, saying, among other things, that he had not seen a free Christmas in nineteen years, and begging clemency that he might have one more chance. He has spent several terms in prison the past nineteen years—only remaining out a few months before he was back again. So that during all these years he had not——Christmas.

The judge took pity on him and gave him a suspended sentence, which was the same as another chance to show himself a man.

The judge took pity on him and gave shim a suspended sentence, which was the same as another chance to show himself a man.

What a splendid opportunity was placed before him! He started in again to show what he could do. Many people encouraged him. For a season his pathway was full of sunshine and hope. But the evil day came. He lost his position because of his lack of foresight. A friend met him on the street and asked him to drink. I call him an enemy. Under the influence of strong drink criminal tendencies were generated in his heart. With the madness of a lunatic he risked his liberty for a mess of pottage. He sold himself to the devil. In an hour he fell under the influence of strong drink. He was caught red-handed. The die was cast. He was arrested, indicted and sent back to Clinton Prison again for five years. This man told me with tears in his eyes that it was his own fault and he deserved all he got for his foolishness.

Five years for one drink of whisky which for the time made him a fool! If there were no wide open saloons in this town this man would still be enjoying his freedom. When a poor drunkard comes before a magistrate in this city, he usually says to him: "John, I will lock you up for your drunkenness." Why don't they lock up the saloons and the poor drunkard would attend to his business. Then he would be able to feed and clothe his family. What an awful account the runseller will have to give at the bar of God!

A Request From "Little Bobs."

# A Request From "Little Bobs."

Lord Roberts has found time amid his multiplied labors and excitements to send from South Africa to London a tele-gram rebuking his home-staying fellow-countrymen for the form of welcome with countrymen for the form of welcome with which they have received his discharged soldiers. Lord Roberts is a temperance man of pronounced views, believing as little in alcohol as an ingredient of patriotism as of courage, and it is no wonder that he has been disgusted by the accounts he has received of the orgies which disgraced the London streets on the arrival of the returning troops. "I beg earnestly," his message runs, "that the public will refrain from tempting my gallant comrades, but will rather aid them to uphold the splendid reputation they have won for the imperial army." The heroic "Bobs" is a fighter of such approved ability and determination that he can well afford to do a little preaching on occasion. His sermons are always treated with respect, even if they are not always heeded—and it's more the pity that they are not always heeded,—New York Times.

# Does Not Give Force

Does Not Give Force.

Professor Bunge says: "Alcohol does not give force; it is not force-producing. The seeming exciting impulse which it produces is but a fleeting exaltation of the organism, after which comes the period of fatigue, weakness and paralysis. The consumption of alcohol neither augments the physical energy nor the muscular work. Alcohol does not warm the organism. Alcohol does not favor digestion."

# The Crusade in Brief.

The footsteps of every prosperous man re far and away from the saloon. If you drink beer, rum and whisky, you are certain to suffer from bitters.

A little in one's own pocket, and less in the saloon's, is a savings bank notion. Drunkenness has become disreputable or it is pitied as the manifestation of a de-plorable disease.

Canada consumes just two-thirds of a gallon of spirits per head of population per annum; the United States consumes one gallon of spirits per head appopulation per annum.