

pear to be plowing very easily and Epitomist. perhaps carelessly; but he is watching every movement of the plow and OBSERVE SANITARY CONDITIONS shifting the handles slightly one way | Roup may generally be traced to or the other that it may take more or uncleanliness or unsanitary condiless land. The plow of course, should , tions, lice, dampness or drafts, or undo the plowing itself, without neces- due exposure to wet and cold weathsity for the plowman to bear down on er. While roup is more prevalent in it with all his weight, nor to raise it the winter than in the summer time, up on its point constantly; but nev- yat cases of this disease are frequentertheless plowing needs close atten- ly met with in the summer. Overtion. Intelligent selection of the crowding, improper ventilation, filth team which is to plow together is im- and lack of protection from rains and portant. The horses' gaits should be dampness are the most common sumeven, and they should work well in mer causes of roup. span. It is impossible to do good work with one horse walking rapidly and the other lagging behind constantly, or walking sometimes in and plow itself is another thing to conall kinds of land. A sharply curved, short, high mold board will throw the furrow very high and hard and break it up; this is suitable for a stiff clay

For smooth, mellow soil, or for plowing sod in the spring, when it is desired to turn the furrow squarely over, a plow with a long, slightly curved mold board is best, as it turns the furrows smoothly upside down ager. and breaks the furrow the least. The Scotch farmers want a plow which will turn a narrower furrow than American farmers. If the beam of the plow is short, bringing the horses it there. near to the point of resistance, the draft will be least; but there shou'd be several links between the beam some loeway; when stepping on a mound or into a depression, so that the point of the plow will not be jerk. a cow for 365 days that gave an averand the whiffletree to give the horses ed up or down.-Guy E. Mitchell, in age of more than 75 pounds of milk the Farmers' Home Journal,

PROVIDING GREEN FEED.

I wonder if those poultry raisers who have alfalfa or clover know that the last cutting, or a cutting just before frost, when the plants are yet tender, if well cured and preserved, get out. makes the best kind of green feed for chickens in winter? It exceeds all they are expected to lay, nothing better could be given them.

Cut the hay quite fine with a cutter-or if you have no cutter, it can I dig them out carefully every spring be shredded somewhat by hand-put it in a pail, and pour scalding water over it. It is well to have a cover for the pail, so the steam can be kept I scatter plenty of blue grass seed on in. Let it stand for a few hours until it is well soaked, then mix with bran and put more hot water over it, so that it forms a stiff mass. Feed it to the chickens while a little warm, and they will eat it with a raving ap- of seed handy and drop a pinch of petite. Such a mash fed two or three times a week during winter will keep the chickens healthy and the egg basket full .- Correspondent of Farm and Fireside.

THE PIG IS A BUNDLE OF PRO-TEIN.

It is so easy to throw out a few scoops of corn to the bunch of broad sows, and it is the way many of them are fed. The brood sow must be looked upon as a pig factory, and the pig is a bundle of protein, as it were. The sow developing a litter of pigs must have this protein supplied in her food. Her system fairly craves it, and she ravenously devours the chance flesh or carcass which comes her way. The few wisps of alfalfa or clover hay falling from the load are eagerly licked, and if she is allowed to go to farrowing time undergoing this protein starvation she is feverish and constipated, and the conditions are all there to produce a pig eating sow. Even if this does not occur the pigs are lacking in vigor and vitality, and oftentimes the mother does not have a proper supply of milk .- Weekly Witness.

DRINKING FOUNTAIN.

After sixteen years' experience and with varying success with different sorts, I have found the following the

most satisfactory and simple; Take a basin or crock that will hold two quarts of water and fill it with pebbles a little smaller than eggs. When level full of pebbles pour in the water until the spaces between them are full. Sink the ves. and relatives to leave at death their sel in the ground until the rim is an wedding rings for this service. inch above the surface. The chicks can run all over this, stepping on of slik inside the tabernacle are supthe pebbles and can drink the water ported by about fourteen golden rings without getting wet, as they cannot crowd each other into the water no of them the name of its donor is matter how much they try to do so. scribed .- London Globe, It is easy to clean and will keep the water cool for several hours.-Mary A. Lee in the Epitomist.

FATTENING HOGS. It is well enough to lay down the rule that ten pounds of corn will make one pound of pork, but rules may not give the result expected un-

less under certain conditions. Some

THE RIGHT KIND OF PLOWING. pork than others on the same food No amount of harrowing or after and even with a selected breed there work can entirely overcome the et- will be individual animals that will in fects of bad plowing to begin with, crease more rapidly than others. In Plowing is the foundation of the crop | the winter season, if the hogs are exto follow. A man who can drop a posed, twenty or thirty pound of corn straight furrow is one who keeps may be required to make a pound of pretty close watch of his plow. He pork. Care and management are immay hold his handles loosely, and ap- portant, as well as breed and food .-

FARM NOTES. Nuts are a staple food article that are coming into greater use each sometimes out of the furrow. The year. It may be a good investment to leave those hickory bushes on sider. No one plow is best suited to that thin land or those walnuts on that strong land.

Angora goats generally live twice as long as sheep. A healthy goat will eat about 750 pounds of hay in one winter, but will manage to get along on a reasonably good brush pasture in summer without anything else.

A combination of fruit and bees is fine. It makes good living for the family, and a good living for the man-

On almost every farm there are places where little else will grow but an apple tree or a fruit tree of some kind. The frugal man will put

Poultry houses should be built on high, well drained ground, facing the south, and should be well lighted, frequently aired, and kept scrupulously clean.

How would you like to have to milk each day?

We hear no more of the rain maker in the West. We hear a great deal of the rain saver. He is cheaper and much more effective.

Do not resort to law unless you are in the last ditch and do not care to

Keeping Dandelions From Lawns. There are those who say the danother cuttings As chickens require delion cannot be killed. I know betsomething of this nature in winter, if ter-I've tried it. I have a lawn 200 feet by 150 feet without a dandelion, and I didn't rip up my lawn either. How do I keep the dandelions out?

and keep a close watch for their reappearance during the summer, thus avoiding the seeding. Every spring my lawn and thus supply it with seed that is lost to it by reason of frequent cutting.

Not only that, but when I am digging dandellons I have a pocket full seed in each hole I make when I extract the dandelion from the sod. New grass grows up quickly, fills the hole and chokes the dandelion.-Denver Post.

Family Well Supplied With Thumbs. Seven men with twenty-eight thumbs is the rather remarkable reced of John Hoge and his six sons, who live on a ranch near Blacktower,

The elder Hoge was born with two thumbs on each hand, both fully developed, and both under perfect muscular control. He is the father of six big healthy sons, each of whom has two extra thumbs, just as well developed and under control as their father's. The men say they suffer no inconvenience from their peculiar deformity.

All wear gloves during certain seasons of the year, but in order to fit their hands they are forced to have them made to order, each with a double set of thumbs .- Albuquerque (N M.) correspondence Denver Post.

Wedding Rings As Curtain Hangers. A handsome tabernacle of silver gilt has been erected in the Chapel of the Blessed Sacrament in the new Roman Catholic Cathedral at Westminster.

For years past, in anticipation of this event, a lady who has done much for the Cathedral has been collecting gold rings on which the inner curtains might hang. She has succeeded in persuading many of her friends

At the present moment the curtains which she has obtained, and on each

Natal is now producing a ton of cane sugar to Louisiana's ten. The sugar estates of Natal represent more than \$7,300,000, and gave employment last year to 7,137 indentured coolies from India.

Slam has an area of 9,000 square breeds of hogs will produce more miles.

STILL PICKING.



-Week's cleverest cartoon, by Ketten, in the New York World.

Mr. Walter Weilman Says Count Zeppelin's Achievement Gives Promise of Great Things in Aerial Navigation and Warfare.

PREDICTS AN AIRSHIP TRIP ACROSS THE ATLANTIC

man writes as follows regarding the while the America lifts 19,500 achievement of Count Zeppelin in his pounds. The altitude gained by such

Count Zeppelin's record breaking pounds in a lump presents no prac-voyage with his great airship sur-tical difficulties whatever. prises no one familiar with the presgation. That a modern motor balloon poses, size is sure to be a factor of can be depended upon to make voy- prime importance. Interesting exages of from one to two thousand periments may be made with small miles, under fairly favorable condi- ships. But real and important work tions, has long been known to men requires large ships, built by en-Count Zeppelin's success is epoch admit of the employment of steel and making in that it convinces a scep- other metals, instead of flinsy structical world of the practicability of air- tures of bamboo or such materials. ships and of their utility as engines of war and as instruments of exploration of the upper air as well as parts of the earth otherwise inaccessible, like the great unknown area surrounding the North Pole.

of aerial navies by the chief military Powers. In fact, Germany, France, Great Britain and the United States are already moving in that direction. France has the Lebandy and La Republique already in commission, and Count Zeppelin's ship, it is understood, is to be taken over for the German army.

The modern airship or motor baland forts and the camps of hostile upon them.

Can Drop Explosives on Enemy. the future has been declared imprac- voyage through the air. ticable by some critics because the instantly cause her to shoot up to a great altitude. The critics who think this is a fatal objection are not familiar with the art of airship constructhousand pounds of ballast or weight

New York City.-Mr. Walter Well- of between 25,000 and 30,000 pounds, a ship through dropping one thousand

In the airship of the future, whethent state of the science of aerial navi- er used for military or scientific purwho are familiar with aeronautics. gineers on a scale great enough to Breaks All Records.

Count Zeppelin has broken all records for length of run. But there is no reason why the military cruiser of the future should not have a radius His latest demonstration without doubt will assure the rapid building of serial navies by the chief military quantity of fuel that must be carried for a given distance. A ship like the

America carries three tons of gasolene in her steel tank, and if the influence of the winds be regarded as neutral she can motor 130 miles at about twenty English miles an hour. Count Zeppelin's remarkable cruise is only a foretaste of what is to be done with motor balloons in the near loon will prove to be an effective en- future. Within a few years I expect gine of war. She can make reconnoisances of an enemy's position, flying at an altitude giving her imica type. In fact, the America could

munity from the enemy's guns. She cross the Atlantic without much risk cannot only gain invaluable informa- of accident with a little help from the tion, but she can make attacks upon winds. A voyage from New York to strategic points, such as cities, bridges Chicago, or vice versa, is within her scope, and I am strongly tempted to armies by dropping explosives down bring her over from Paris this fall and give Americans a demonstration of what a first class engineering con-This phase of the aerial warfare of struction can do in the way of a long

In view of the success of the Zepdropping of a thousand pounds of explosive from a ship of the air would publique, and the undoubted ability publique, and the undoubted ability of the America to make a longer voyage than Count Zeppelin has just made, many experts regret that the first venture of the United States tion and operation. Dropping one Government in military motor ballooning should be with such a small of any sort from a small balloon- affair as that of Captain Baldwin. dirigible like the one Captain Bald- It has no class. It is too small. It win has built for the United States has no endurance. Captain Baldwin Government would, of course, be is a skillful man, but his machine is either impracticable (because the ship not large and powerful enough to could not carry so much) or danger- give him a chance against a great ous if she could carry it. But that cruiser like the Zeppelin. When the weight suddenly released is a baga- United States Government enters the telle compared to the total lifting ca- aeronautic field it should not be conpacity of such a ship as the Zeppelin tent to begin where foreign experi-or my polar airship, the America. menters ended years ago, but should The Zeppelin has a total lifting power | be up to date in size and engineering.

CONSUMPTIVES' LUNG CAPACITY.

French Doctor Finds in Chest Measurements the Best Source of Diagnosis.

erto has been most difficult. Dr. reached one and one-sixth. Boureille now describes a series of can be established.

inspiration and expiration and noted exceeded one and one-sixth.

Paris .- While awaiting the discov- | the difference. For normal females ery of some means to cure tubercu- he found that the difference always losis scientists are searching for some exceeded two and one-third inches, means of early diagnosis, which hith- while for tuberculous women it never

He then measured a thousand solexperiments whereby an easy method diers and found a differenece of from three and one-half to four and one-He examined every year 1200 half inches. The tests on tuberculosis women and girls. He measured the patients show that in ninety-eight per thorax at the moments of extreme cent. of the cases the difference never

BIRDS SLOWLY INCREASING.

Audubon Society's Efforts Saving Many Species Now Nearly Extinct New Orleans.-The census of the tion of the islands this summer. They bird islands on the Louisiana coast are mainly laughing gulls. Next in has been completed and shows a con- number are the Louisiana herons, the siderable increase in the number of royal cabots and Forster's terns and the birds in spite of heavy losses black swimmers. Some of the variethrough recent storms. The islands are nineteen in number only twenty-five snowy herons left,

and were given by the Federal and twenty-two black crowned night State governments to the Audubon herons and thirty-five Caspian terns, Society as a bird reservation. At the all once abundant on the Gulf coast, time of the gift the sea birds on the but killed off for their plumage. A The census shows that 62,000 more and young birds killed by recent

Gulf coast were nearly extinct. birds have been added to the popula- storms.

China Bars Morphine, Asks Japan's Aid.

Pekin.-China has asked Japan to consent to the restriction of the importation into China of morphine, as well as the instruments used for the is also a scarcity of re-enlistments. Injection of the drug. All the other The Colonel of the Twelfth Dr Powers long since agreed to this re-

striction It is highly desirable that Japan traffic are to be devised.

France to Use Posters

to Gain Recraits. Paris .- The vote on two years of military service releases a number of men in the French regiments. There

ties are nearly extinct. There are

number of eggs have been destroyed

The Colonel of the Twelfth Dragoons, station at Pont a Mousson, has decided to adopt the American system of recruiting through brilliant consent to this proposal, particularly and artistic posters depicting the adin view of the opium congress to be vantages of service, including fancy held in Shanghai in January, when cloth uniforms, the regular life in the measures for the control of the oplum | service and at 10 p. m. bed for the petty officers.

What the American Newspaper Should Be

By Secretary of the Treasury Cortelyou.

IE daily newspaper is for the most part so hastily made up that its news and oftentimes its editorial columns are prepared under the pressure of urgency which precludes full consideration, but these conditions furnish no warrant for unjust attacks upon interests or individuals. American journalism must purge itself of the malign influences within its ranks if it is to be true to its splendid traditions and its high mission. No man should be condemned upon insinuation; no man should be held guilty

until his case is all in; and, above all, the fair fame of woman must not be sullied to swell the receipts of a counting-room or furnish copy for every cheap scribbler of gossip. We can find no fault with honest and intelligent criticism. Just criticism is a conservator of popular rights. No man fit for public office but will welcome it and profit by it. There is no higher mission than that of the press. Its criticism, if fair and just, holds us to a strict accountability. It can be the bulwark and support of honest government. It can be the disseminator of genuine public intelligence. Along with its news it can carry the message of truth and hope and good cheer to every nook and corner of the land; it can point the way to clean living and high thinking: it can be a great teacher and leader of the people. How grave, then, its responsibility! How wide its field for public service!

The Age of Fraternalism.

By Dr. Lyman Abbott.



on a basis of mutual service and helpfulness. In the middle ages the conception of society was that the rule of the few was wise and good. Then came the Puritan reformation, and a century later the French revolution. These two broke down aristocracy and autocracy and there was ushered in a conception of individualism. Now we are entering

into another epoch, that of fraternalism. In the coming age all the creeds and sects will be united by a common aim, purpose, spirit; because the coming age is to be a fraternal one. Every age has its vices and its virtues. The nineteenth century has had vices, all due to the same source. The first vice has been that of accumulation. Put men together and tell them to look after their own interests and push ahead and each man will be measuring himself by his accumulations. The second vice is the lawlessness of self-will. We hear of the criminal classes. Can you tell me today who belong to the criminal class? Do the insurance directors who bought stocks low and sold them to companies in which they were directors at high prices? Do the railroad officials who broke the law of the land and now stand convicted? Do the coal carriers who did by a gentlemen's agreement that which was against the law? In religion the tendency has been toward narrowness and sectarianism. Each man has thought for himself and has thought that this was all there was to be thought. This is the irreverence of self-conceit.

Church a Workshop.

It Cannot Refuse Its Help to Any One Who Seeks a Hetter Life, Be He Capitalist or Laborer. By Bishop Daniel A. Goodsell, of Boston,



see clearly that within the next generation there are to be great social changes. The influence of wealth on political life and measures is to grow less, whether it be in the hands of individuals or corporations. The workingmen are to have more power, the idlers less. With a restless and iconoclastic future before us, we must both lead and restrain by religious forces. The social philosopher and the sociologist can detect injustices and wrongs, but he can never create the desire to remedy the wrongs which

are the issue of greed. For those who labor with their hands and whose reward is a wage church has great sympathy. Their share of the profits of business is often such that, if they have families, they can have no hope of saving a competence for old age. The freight trainmen seem to have nothing so surely before them as maimed hands, missing legs and a dollar a day at grade crossings,

and in old age not that. We hold the right of those workingmen who desire to do so to form

labor unions for the advancement of their interests, as we hold the right of individual laborers, who prefer to do so, to seek the control of their own labor. The church and the trades unions should seek each other's help for the uplift of mankind. The church is not a museum of perfected specimens, all ticketed and labeled and shut up in a stained-glass case for the world to admire. It is a workshop to which all who are willing to "work out their own salvation with fear and trembling" must be admitted. The church cannot refuse its help and countenance to any one who professes to accept its principles and to seek a better life, be he either capitalist or laborer. By so much as a capitalist is selfish, miserly, exacting, oppressive, has the church business with him. She cannot throw him off and away until the last day of his desiccated and shrunken life brings him before God. She must hold before him the image of the unselfish Christ, in the hope that in its light he will see how far he is from the Kingdom of God. Let it be remembered, however, that nowhere in the world does wealth

manifest its obligation to contribute to the public welfare as in the United

Why Immigrants Like America

By Prof. Emil Reich.



iE influence of locality is indeed one of a very far-reaching kind. By locality I mean a country, a town, a district and many other sub-divisions of any territory.

Each division of that kind has, as it were, a personality of its own. Through its peculiar local conditions, its climate, scenery and type of men and women, it acts powerfully upon the imagination, nerves and mental habits of the people living

However, it is not so much in the "natives" that that influence of the locality becomes manifest. The nature, that is the people who have been inhabiting that certain locality for generations, are not the strongest, nor the most valuable specimens of the effect of the locality, It is rather the persons who come to dwell in the locality after having

left their own in another district. It is on these newcomers, outsiders, foreigners, that the locality exerts a most marvellous influence. The man who in his own locality has become stale and inert will very frequently change completely upon his settling down in a new locality.

The new surroundings, the new types of men and women, of scenery, of climate, act upon him as an irritant or incentive of a high order. His energies, which in his old surroundings had become slack and somnolent, now, in the new locality, wake up to a new life. From having been an idler, a casual worker, or an indifferent laborer

he now feels electrified. The greater the difference between his old home and the new the greater will be the vitalizing power of the change of locality. A person leaving his native Somersetshire for Oxfordshire will invariably feel a sound change coming over him in more than one respect. Should he settle down in London the change will be ever so much greater. Should be decide to leave and actually settle in the United States, the change will be

Few Americans are aware of one of the secret causes of the fact that the Yankees assimilate, without even thinking of it or without troubling much about it, millions of Europeans not one per cent. of whom could have been really assimilated in Europe by the English, the Germans or the French. Millions of Germans become in the United States rabid Yankees in the

course of a few months, without any Americans so much as asking them to do so, while all the wisdom and power of the Prussian government has these one hundred years been unable to assimilate 100,000 Poles, But when the German peasant arrives at New York, he has not been there

a single hour but what half a dozen people have done him what is to his mind an exquisite and flattering honor. They have "strred" him; they have said "Yes, sir," or "No sir." In Europe the honor of being addressed by "sir" has kever been done him, although he was always expected to "sir" every better dressed person speaking to him. For years this had rankled in his heavy soul, and now a new flood of sensations shoot to his heart and brains and in that very moment he is a new man.

The Americans are quite unaware that that meaningless "sir" has done more for the assimilation of millions of European newcomers than have all

the paragraphs of the American Constitution,