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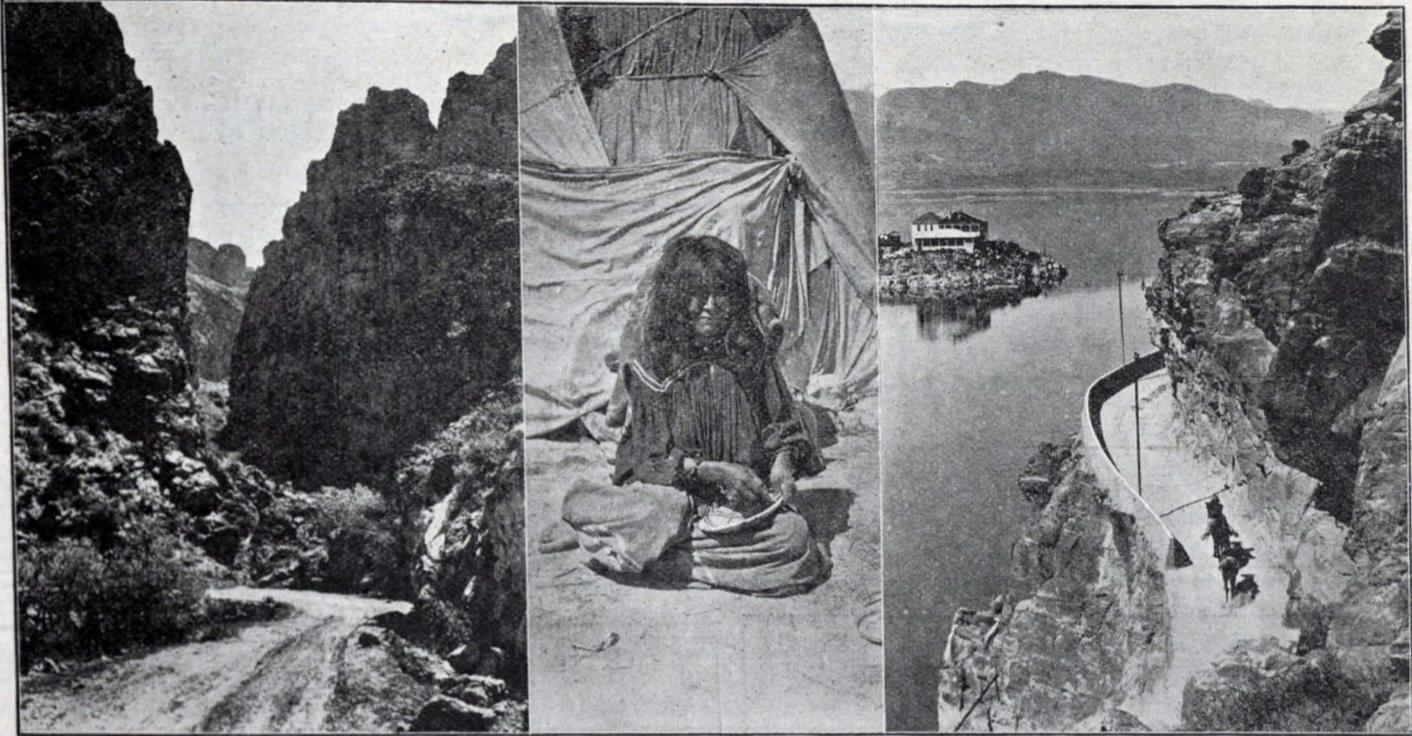
Volume XII. No. 4

THE STATE MAGAZINE

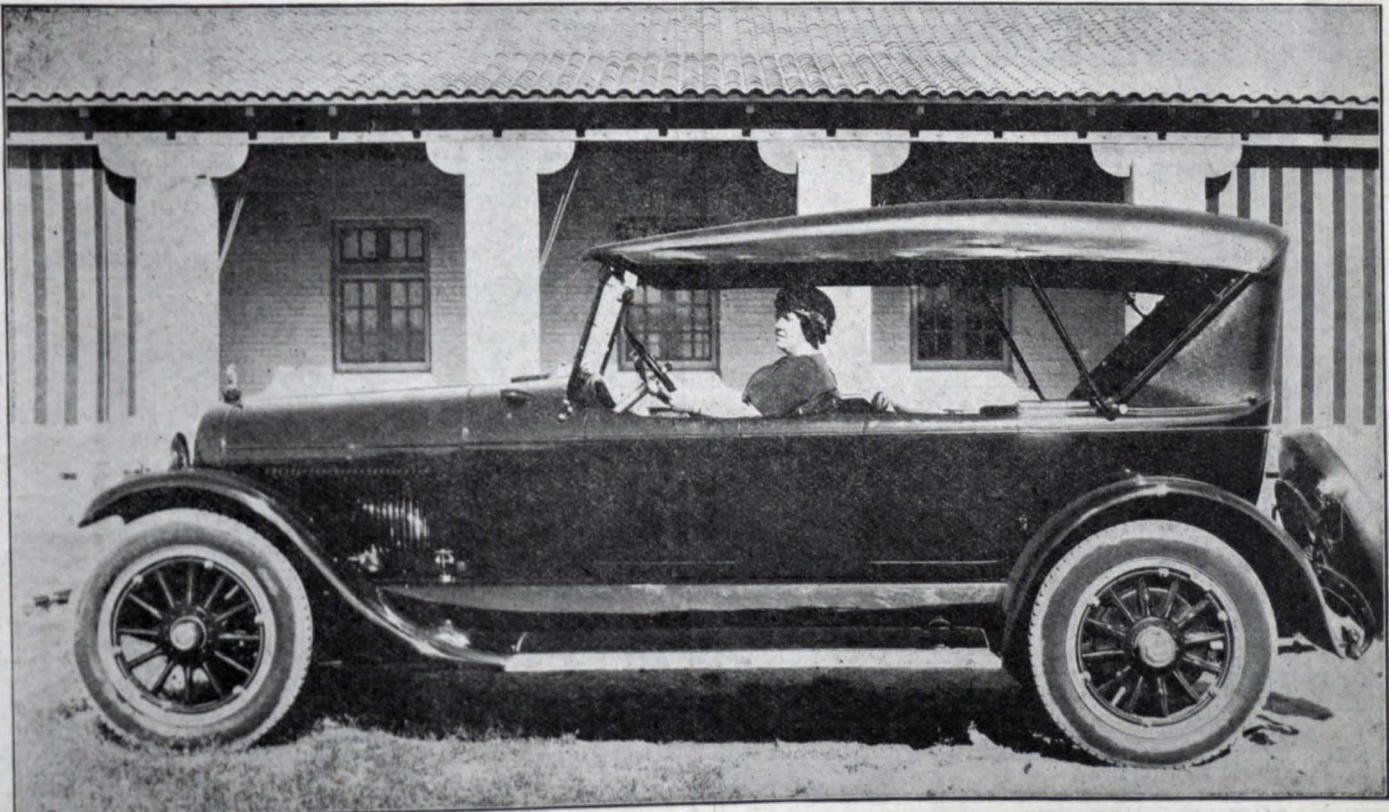
JANUARY, 1922

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Interesting Scenes in Arizona, Easily Accessable to the Motorist



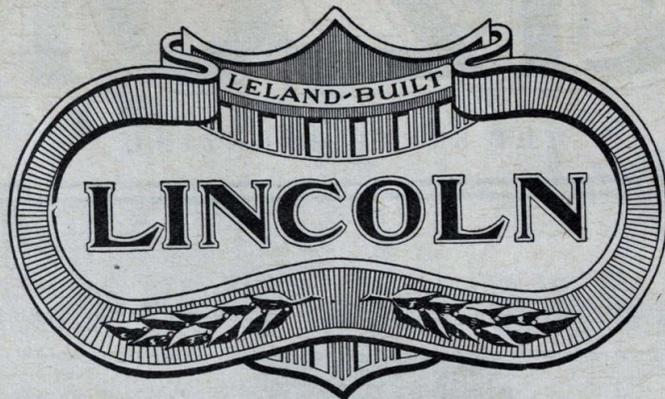
Arizona offers the motorist unusually interesting scenery, many miles of paved highway, and ordinarily good mountain roads, together with invigorating atmosphere and unexcelled winter climate.



The Lincoln Phaeton De Luxe, in front of the New Phoenix Country Club building, Phoenix

LINCOLN MOTOR CARS

THE NEW



PHAETON de LUXE 4 Passenger car has a combination of seemingly little, yet really big things which has served to elevate it to a position of which it is the only occupant.

In order to fully appreciate and realize this fact it is necessary to see this wonderful car, ride in it and drive it. An agreeable surprise awaits you. It is an education, and you owe yourself this knowledge.

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PHOENIX

TUCSON — DOUGLAS — NOGALES — BISBEE
YUMA



CHRISTMAS DAY

"Heap on more wood, the wind is chill;
But let it whistle as it will,
We'll keep our Merry Christmas Still."

It is well for us as a people to stop a moment in this season of gladness and consider for a little the greatest event that has ever taken place in the world's history which occurred over nineteen centuries ago in the small hill town of Bethlehem, in old Judea in Palestine. This incident was no other than the ushering into the world of a little life, but it was fraught with tremendous consequences. The birth had been foretold for nearly two thousand years at different times by the greatest authorities living, and was eagerly looked for by scholarly and high-minded men of those days.

This child, who was to be the greatest philosopher of all times, the One Teacher and Author of our present civilization, and the One who brought enlightenment to his train, was the child Jesus who was born in a manger and who passed out of this world in what might be called young manhood, but he left an influential and eternal impress on the whole world and is matchless among all the uncounted multitudes who have been born into it.

Time, both before and since his advent, is dated from that wonderful coming—thus do all, unconsciously though it may be, do him homage. His was strictly a life wholly lived for others. His understanding of all things was unlimited, his love tender and beyond compare and his sympathies so broad and deep that he carried the burdens and griefs of all. And since going into the realms beyond he still ministers to us, soothing and leading us all the way and helping us to comprehend the great truths he left us; creating a moral and mental revolution in the hearts of those who will listen and receive him, thereby proving the wondrous vitality of his indwelling life. There is no one but reverences his name and believes in him as at least good, pure and noble, and there is a power wielded by him in this day of the world greater than ever before.

All the enlightened nations of the earth are now holding a world holiday in honor of his birth. It is a day given by common consent to bringing joy to those we love and should alike be used to add brightness to those lives less fortunate than our own. Let us not forget that a kindness done to one of the least is done unto Him.

There is no time in the whole year that calls for so much happiness and gladness as the Christmastide, gifts, kind words, and benevolent acts should preeminently go with the day, but in all our doing let us make it a day of paramount delight and innocent pleasure to the precious children. No one will be the worse off for the Christmas observance, and all should keep it.

There are many complaints about the modern celebration of the day. It seems to the writer if it could be confined to the children and perhaps to some one to whom the gift would come as a benediction it might be better. Happiness would surely be brought to every one if this custom prevailed, for who is so stolid that pleasure is not brought to his heart when witnessing the joy of the little ones when with arms filled with toys and other gifts, they dance and leap about the Christmas tree?

Let us not forget in any event to bestow Christmas joys on the neglected ones: give joy at least to some child aside from your own on the blessed Christmas day. A great day could be given to the neglected little ones and others who could not otherwise enjoy an automobile ride into the beautiful Salt River Valley beside the canals carrying the life-giving waters through the citrus fruit orchards that are laden with the golden fruit. Methinks the beautiful scenic view of the picturesque mountains and the chanting of the Christmas carols from the joyous little throats would bring commendation from Him whose birth we celebrate and that He would take it as an honor done to Himself, for these "least ones" He would surely be well pleased.

ARIZONA

TELEPHONE COURTESY WINS

A generic term applied to telephone practise "Courtesy" covers a great many things. Were Lord Chesterfield living in this telephone age he would undoubtedly enlarge upon the importance of telephone courtesy in his famous letters to his son.

Telephone courtesy not only includes common politeness but reasonable consideration for the convenience of others. It gives a pleasing blend to all business intercourse. The late Andrew Carnegie commenting upon the retirement of one of America's leading business men once said:

"This young man actually sweetened sordid business dealings by the amiability of his manners." It's the voice with the smile that wins.

THE AMERICAN'S CREED

I believe in the United States of America as a government of the people, by the people, for the people; whose just powers are derived from the consent of the govrd; a democracy in a republic; a sovereign Nation of many sovereign states; a perfect union, one and inseparable; established upon those principles of freedom, equality, justice and humanity for which American patriots sacrificed their lives and fortunes.

I therefore believe it is my duty to my country to love it, to support its constitution, to obey its laws, to respect its flag and to defend it against all enemies.

FARM PRODUCTS

The tendency to better prices in all agricultural products including live stock is most encouraging.

While some lines of farm products are lower than heretofore, the general average tends to higher prices. Grains and hay may not be as firm as formerly. The higher prices of beef cattle are more encouraging, while swine, sheep and butter may be slightly lower. The facts, however, exist that these products are more economically produced, because of lower prices in hay and grain. Everything associated with agriculture proves conclusively that our forage crops will return the farmer better prices when fed to live stack. It not only produces better returns, but leaves the land in a better state of fertility.

The rural telephone has become a fixture; it is no longer a luxury but a sound business proposition; it is an innovation that will increase the social life of the country; it is a convenience that cannot be overestimated. While it costs something, the expense is exceedingly slight as compared with its usefulness. Farmers who are situated so they can avail themselves of its advantages invariably claim that they could not get along without it. We think of nothing along economical lines that returns the farm as much for the outlay as does the farm telephone.

Much is being said through the public press and otherwise relevant to the progress and development of the various towns in the Southwest. This is as it should be. Yet we must not lose sight of the stubborn fact, that we can not rear a superstructure without a foundation to sustain it, and that Agriculture in its diversified forms, is the only sure and lasting foundation upon which our towns and cities can hope to make permanent and substantial growth. Therefore the energy of the well-wisher of our towns and cities should be directed to the permanent improvement and development of Modern Agriculture.

The time is speedily coming when practically every farmer will own an Automobile. They are proving to be time savers, and in these days of high priced labor, time is money. The Auto saves money by shortening the distance to and from the market. It likewise enables the farmer to deliver his milk in good condition to the creamery, which improves the price of dairy products. In always the Auto is not only a saver of time, but as well a great blessing to the family, one should be owned at the earliest convenience by every progressive farmer.

Buy good live stock. It will grow while you sleep. It will not only increase in value, but will likewise increase the value of your crops at the same time. All crops that are adapted to the feeding of live stock is worth very much more on the hoof than in the bin.

It is generally understood that a man must not overdraw his bank account. It is however infinitely worse for the agriculturist to overdraw his fertility account in his soil, when you get a partial crop it is a notification that your fertility account has been overdrawn. You should at once proceed to replenish it. Alfalfa will do it quickly and economically.



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RESOLUTIONS AND DIRECTORS OF ARIZONA INDUSTRIAL CONFERENCE

P. G. Spilsbury	Chairman
Henry G. Boice	First Vice-Chairman
Fred Tait	Second Vice-Chairman

EXECUTIVE COMMITTEE

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Henry G. Boice	First Vice-Chairman
Fred Tait	Second Vice-Chairman
Lawrence G. Wilson	Representing Agriculture
F. A. Riordan	Representing General Business
Hugh Campbell	Representing Live Stock
J. H. Dowell	Representing Mining
Dr. A. M. Tuthill	Representing Professional
F. S. Viele	Representing Public Utilities

DIRECTORS

	Name	Address
Agriculture	C. S. Brown Fred Tait Lawrence G. Wilson	Tucson Phoenix Casa Grande
General Business	Morris Goldwater Geo. Kitt T. A. Riordan	Prescott Tucson Flagstaff
Live Stock	Henry G. Boice Hugh Campbell L. L. Harmon	San Carlos Flagstaff Phoenix
Mining	G. H. Dowell T. H. O'Brien P. G. Spilsbury	Bisbee Globe Phoenix
Professional	Dr. A. M. Tuthill J. P. Boyle Dr. Jno. E. Bacon	Phoenix Douglas Miami
Public Utilities	F. S. Viele H. B. Titcomb H. D. McVay	Prescott Tucson Phoenix
At Large	Not yet appointed	

Mr. Chairman and Gentlemen of the Conference:

Your Committee on Resolutions beg leave at this time to make the following report:

We have listened to the splendid addresses that have been made by the respective speakers during the sessions of this Conference. They show the necessity of a state-wide organization such as is now being formed, and the good that may be accomplished by such an organization. If it follow in the pathway marked out by the speakers, it cannot but result in great good to all the people of the State.

Other states in the Union have been quick to see the necessity of co-operation between their various industries, as well as the great benefit to be attained in the use of products grown and produced within their boundaries. It is to our shame that while the people of other states are loyally standing by and supporting their state industries, and using the products thereof, the people of Arizona are not so doing.

In coming together and exchanging views with one another, members of this conference must have had it forcibly driven into their minds that Arizona products of the farm, the orchard, the dairy or the vegetable garden, have often gone to waste, or been sold at prices that were ruinous to the producer; while products of like kind, perhaps not nearly as good, have been brought from distant states and used by our people.

Therefore, this conference should solemnly resolve that the greatest effort will be made to impress upon our people that one of the greatest steps in the advancement of the interests of the state would be to convince the people that they should use, so far as possible, Arizona's products.

There are certain great questions now before the people of this State upon which this conference should declare itself. In a limited way they are embodied in the resolutions following:

THEREFORE, BE IT RESOLVED:

RECLAMATION AND POWER

That we urge upon the people of the United States, and upon their Senators and Representatives in Congress, the immediate enactment of a national measure providing an adequate appropriation for carrying out without delay the recommendations of the President of the United States in his last message to Congress relating to relief from the menace of congested cities, and the reclamation of waste lands of the nation.

COLORADO RIVER:

That the expressed intent of Secretary of Interior Fall, at Riverside, California, December 9, 1921, that the national Government would take over the control of the Colorado River for flood control and reclamation purposes, is and should be acceptable to the people of this state and this organization should use every effort to the speeding up of the work necessary to be done to effect such control and reclamation.

And we further recommend that the flood control dam be placed at the head of the gorge of the Grand Canyon; that intermediate projects relating solely to power and which in no way interfere with flood control and reclamation should be allowed to be developed as the State of Arizona may deem most wise and needful, provided always that if such power is to be developed by private capital, no one interest should have a monopoly thereof; and that in the building of any dams for any purposes in the State of Arizona on the Colorado River, it be embodied as an underlying principle that the present and future needs of the state be guaranteed to it under such rules and regulations as will protect the people in service to be rendered and charges to be made for any power developed.

We further recommend that all feasible proposed irrigation projects within the state receive the help and support of this organization.

AGRICULTURE AND LIVE STOCK

That the people of Arizona and America will be benefited by conserving the agricultural and live stock industries; that the successful production of agricultural and livestock products depends upon the proper financing and distribution of such products; that we sympathize with the farmers and live stock men of Arizona and of the nation in their efforts to effect business organizations for cooperative marketing of various agricultural products and live stock;

And we recommend to the other business interests here represented that they lend their aid in bringing about a condition of cooperative business organization of agriculturists and livestock growers, to the end that all industries in the state and in the nation may be benefited and upheld by a prosperous, productive and contented agricultural population.

TRANSPORTATION

Arizona is suffering under high railroad freight rates, some of which are discriminatory in character, and the railroads, being one of the State's large industries, should co-operate with us in seeing that such rates are materially lowered and discriminations removed, to the end that the producer be given fair treatment and opportunity to compete with producers of like products going to market from other states and so the Arizona merchant may be able to give to Arizona consumers the benefit of such reduction.

TAXATION AND ECONOMY IN GOVERNMENT

The people of this state, almost without exception, feel that the burden of taxation to be borne by them and by the state's industries is, if not restrained, going to become unbearable. For this condition we are ourselves in a considerable degree to blame, for sufficient attention to expenditures of public moneys has not been given by the people. We too frequently forget that our state is sparsely settled, and that the same item of expense borne by one of the older states is almost impossible to be borne by us.

We, therefore, recommend that towns, cities, counties and state work under a closely compiled and economical budget system;

That when an appropriation is made, expenditures be kept within such appropriation;

That an honest day's work be required of those holding official position, and that the utmost economy, having in view the needs of and what the people can fairly bear, be practiced by those having in charge the expenditure of public moneys;

And we hereby pledge ourselves that hereafter we will, as an organization and in our individual capacities, use our best endeavors to see that such economy is practiced.

Respectfully submitted,

Charles B. Ward, Chairman.	James P. Boyle
F. E. Schneider, Secretary.	J. C. Dolan
E. E. Jack	L. H. Halmsby
George F. Wilson	

Resolutions Committee.

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THE STATE MAGAZINE



W. W. P. McConnell, Editor and Manager.

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318 N. Central Ave., Phoenix, Arizona

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Prof. Howard M. Colvin

Consolidated with the ARIZONA MAGAZINE

Entered as Second Class Matter, March 22, 1911. Post Office Phoenix, Arizona.

Volume XII. No. 4

JANUARY, 1922

Price: One Year \$2.00. One Copy 15 Cents

FACTS ABOUT THE FARM

It must be conceded that agriculture in its various forms is the foundation and source of the world's prosperity. Peter Radford says in a timely article in the Fra:

Man is but a product of the soil. Science found agriculture ploughing with a stick.

Agriculture needs all the great men it can get. Humanity marks time by the improvements in agriculture. There is not and never will be an over supply of educated farmers.

Nature is unkind to the universe. Only the fittest survive in farming. The economic distribution of farm products is today the world's greatest problem.

The farmer who markets his produce when the demand is strongest reaps the best reward.

Agriculture has gone through two thousand years of evolution and is still in an experimental stage.

Over-production is the stumbling-block, and systematic marketing is the stepping-stone of agriculture.

The farmer can produce without organization, but to successfully market he must have the co-operation of his neighbor.

The farmer is able to get about on the farm, but he loses his way in the market places, where he needs most assistance.

Greece and Rome went down to their death when the population became congested in the cities and the farms were forgotten.

If your business in the city does not pay, do not go to the farm. There are already too many down-and-outs in agriculture.

Farming is not a pastime. It is a hard, cold, business proposition, and every farmer should be strong enough to look hard-ship in the face. Plan while you plow, and give a lot of thought to seed selection. The thoughtless farmer is a bane to his community; think as you farm.

The economic value of the silo has been demonstrated and proved to the farmer.

The highest attainments of science are yet to be learned, and they will come from the soil.

The highest duty of the State and Federal governments is to place agriculture education within reach of all.

The farmer cannot be helped until he organizes, and the government can not help the farmer except through organization.

Co-operation among farmers in gathering, grading and marketing their products will enable them to secure better prices.

Statistics show that the cost of a plow is twice as much as fifty years ago, while cotton and other farm products are not twice as high.

The prosperity of the farmer is coincident with the prosperity of the state, and fundamentally, the welfare of the people depends upon the cultivation of the soil.

Sunlight, which the great Southwest has in abundance, is without question the greatest germ destroyer and at the same time health restorer known. It cleanses the premises where it shines. It likewise adds warmth and makes the environment far more congenial. The basking under Arizona's Sun Kissed Skies, practically every day in the year, accounts in a large measure for the unusual health conditions found among the children, as well as the wonderful restoring of the afflicted that seek by the thousands this balmy climate that has restored to health.

We commend good roads, nothing means more to farmers. He has more practical use for good roads than any others. They easily enable him to market his products at a most conservative saving of at least half of his time. Agriculture properly managed means prosperity to the country. Good roads mean prosperity to the farmer. With good roads, Automobile, rural free delivery, electric lights, the Telephone and other modern conveniences, we are lead to ask "What is the matter with rural life."

THE PARTING AND THE GREETING

Goodbye, old year!
I would that you could tarry here;
My heart exclaims, "Old friends are best",
It holds them dear above the rest.

Goodbye, old year!
I say the words with many a fear,
When you are gone an other one
Of life's unravelled threads is gone.

Goodbye, old year!
Thus some we hold in life most dear
Slip outward through the door and stay—
Heedless of tears, both you and they.

I'm older now than when you came—
And wiser? Ah, how low my aim!
But wisdom comes through many a sigh.
Old year, goodbye!

Goodbye, old year!
Your lusty rival standeth near,
But I am loth to see you die—
Old year, goodbye! goodbye!

1921 has virtually retired and we are now to become acquainted with his successor; probably as many faults and follies will come along with him as will take their departure with our old friend who with all his frailties has stood by us to the end of his career and has carried us safely thus far. There has been much good in our departing friend. He has been very kind to the farmers and their families in many ways, and they have much to hold him in loving remembrance.

1922 promises great things (as all youth do) as he stands ready to take the mantle that our worthy friend is just ready to drop. He approaches very graciously, bringing more food, better clothing and happier homes; he thinks also he will bring us many reforms. He promises greater promptness in the days to come for Arizona State Magazine & Pathfinder, so our readers may expect it earlier at their homes. Our journal also opens its doors wide to those whose influence is good and whose words are wise and helpful and whose "merit entitles them to respect."

The new year comes with smiles and bows to win his welcome; he will bring with him a host of friends no doubt, and our hearts will soon be running out in affection for our young and newly found friend. He will surely bestow upon us opportunities for kindly sympathetic words and for the extension of the helping hand that we may lift up those who are bowed down and help them along over the rugged ways of life, bringing them into the way of true heart loyalty. Let us keep in mind that old couplet.

Count that day lost whose low descending sun
Views from my hand no worthy action done.

If all were striving for meritorious actions day by day, what a new halo would be cast over the highways and byways of life. May we fasten these thoughts into our memories and ponder over them, forgetting the past as far as may be, for if we would we cannot recall the wasted years with their golden opportunities or efface the fearful blots we've made on life's fair pages, but we can crown with honor the days to come by carefully guarding our thoughts and deeds.

May we take especial pride in starting in with the new year right and then keep so; the result will be that 1922 will prove better, brighter and more fully filled with cheer. Then--

"Ring out the old, ring in the new;
Ring happy bells across the snow;
The year is going, let him go:
Ring out the false, ring in the true."

GLENDALE --- "THE GARDEN CITY"

Just twenty-nine years ago the official plat of Glendale was filed. During the intervening years this district has been transformed from a barren desert area into the recognized "Garden Spot" of the famous Salt River Valley. Located nine miles northwest of Phoenix on the S. F. & P. Ry. (Santa Fe System) and connected with Phoenix by interurban electric cars and paved highways, Glendale is a modern town of 2,800 population, conveniently situated in a district comprising 40,000 acres of the finest farm lands in the world.

Like most other towns of the Salt River Valley, Glendale has experienced an era of growth and development the past few years which has lifted her out of the "country town" class into a modern little city with paved streets, municipal electric lighting, water and sewer systems, a pretty municipal park and exhibit building, together with the type of

sponsible for its growth. Because of the ideal soil, water and climatic conditions prevailing in this part of the Salt River Valley, farmers have generally experienced most profitable seasons in all lines of products. An indication of the growth and productivity of the district is made apparent by the following comparative record of shipments of farm products from Glendale for the 1918 and 1919 seasons:

Product	Carloads 1918	Carloads 1919
Shipped	1918	1919
Alfalfa	353	358
Cantaloupes	839	910
Cotton	42	88
Cotton Seed	41	129
Wheat	10	81
Other Grains	53	80
	(1919)	(1920)
Lettuce	54	125

Glendale is one of the largest shippers of cantaloupes and lettuce in the Salt River Valley.

ance is the fact that Glendale Produce is known for its excellent quality over a wide portion of the United States and is constantly in demand.

Truck farming is not confined solely to the small landowner in this district, covers such a multitude of possible crops that it is difficult to enumerate them all. In the following I shall deal with the possibilities of this branch of farm enterprise by small land holders operating 5 and 10 acre tracts.

In my opinion the possibilities for the keen intensive farmer who wishes to utilize his own labor on a ten acre plot of land are almost beyond belief. I suggest ten acres as being an ideal size to insure steady income the year around. Five acres of which could be planted to alfalfa and five acres devoted to raising truck, alternating every three of four years.

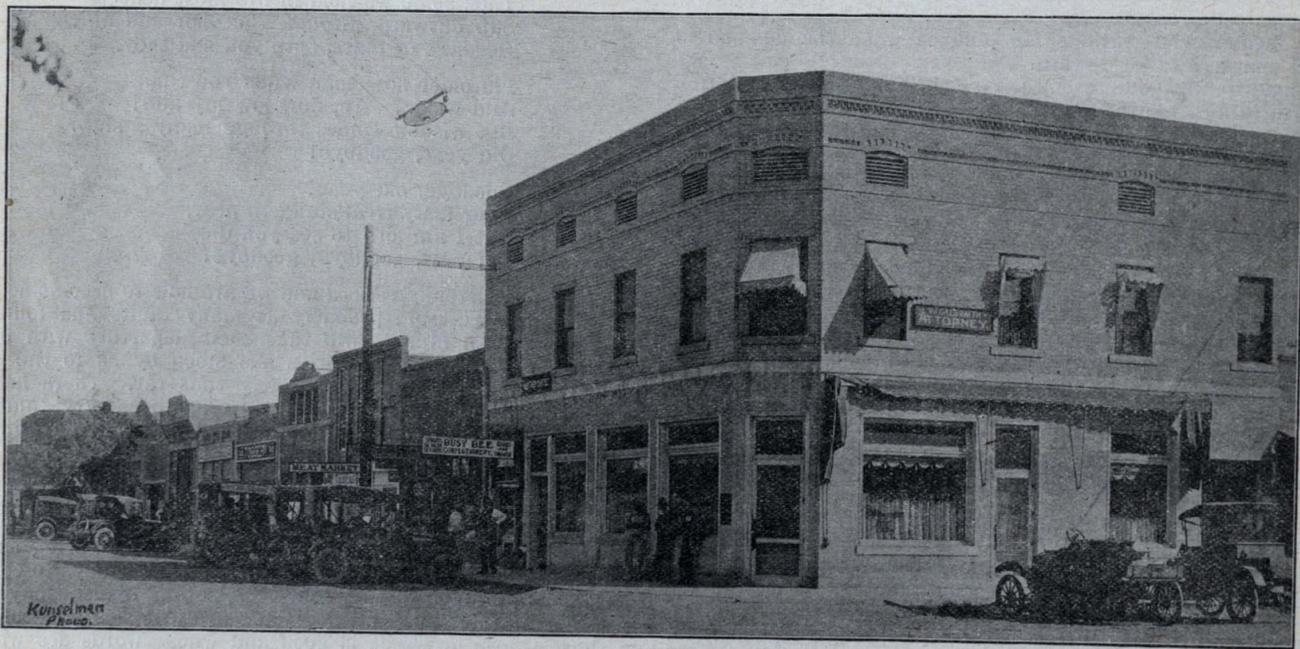
By keeping a small herd of high grade milk cows a nice monthly income can be gained from the alfalfa,

and every kind of sub tropical and temperate zone vegetables can be grown. There is surely no lack of variety to suit the most fastidious tastes of the selective grower.

Glendale lettuce and cantaloupes are unexcelled and widely known. Large Eastern firms annually contract enormous acreage for both these commodities and in a quiet way the United Produce Growers' Association has established a steady market that is a great benefit to the members of the association.

Profitable marketing of produce is an assured success. Policy should not be to cater more largely to the uniced car trade. Up to the present time growers have devoted the whole attention to lettuce and cantaloupes for the simple reason that they have been successful with the commodities and have not been able to fill the demand.

Each year, however, sees an



Business Section—Glendale

homes, stores building and industries usually found in a town of this size.

In addition to having the ideal climate common to all cities of the Salt River Valley, Glendale is credited with possessing one of the purest domestic water supplies in the state. Analysis by experts of the University of Arizona, of Glendale's water supply reveals the following:

Total solids at 110 degrees C., per 100,000 parts	31.00
Chlorides per 100,000 parts	5.60
Alkalinity, per 100,000 parts	0.32
Nitrogen in the form of nitrites or nitrates	None
Sulphates	Distinct Trace
Magnesia	Distinct Trace
Lime	Distinct Trace
Bicarbonates	None

Glendale's prosperity is dependent upon the rich agricultural community surrounding it, and it is the prosperous conditions prevailing among the ranchers that is, in great measure, re-

Alfalfa yields 8 to 10 cuttings in this district; cotton last season averaged three-fourths of a bale per acre; wheat 50 to 60 bushels per acre; milo maize 2 1/4 tons per acre; corn 90 bushels per acre; oats, rye, barley and other grains also showing splendid results. Nearness to the Phoenix mountains also makes this a favored district for citrus as well as deciduous fruits.

TRUCK FARMING

Mr. William Thompson, secretary of the United Produce Growers' Association, gives the following comprehensive article regarding truck farming in the Glendale District:

The district surrounding Glendale is particularly adapted to Truck Farming, having a wide range of deep fertile soil, abundance of water, both for domestic and irrigation purposes, exceptionally good shipping facilities to all points either by freight or express, and a thing of the greatest import-

and milk or cream called for twice daily by one of the several buyers operating in this district.

As a side line poultry keeping offers a profitable source of income. These two lines combine so readily and insure a steady income without a great deal of arduous labor. Moreover, growing of alfalfa for three or four years brings land into the best possible shape for breaking up and planting to truck.

Truck farming is a somewhat strenuous life to the successful man, owing to favorable climatic conditions profitable crops can be raised summer and winter. No sooner is one crop harvested than a new crop can be planted. Winter crops, such as lettuce, cauliflower, cabbage, onions, green peas, spinach and all kinds of bunch vegetables of finest quality grow in profusion.

Summer crops such as cantaloupes, tomatoes, peppers, okra, string beans

creasing number of inquiries for uniced cars. These inquiries usually come from the smaller Eastern cities who have been accustomed to purchasing in California. It can be very fairly stated that these smaller cities are usually more profitable customers than the six larger distributing centers by reason of less danger of glutting the market and it pays both buyer and seller to get into direct touch with each other.

The problem of our supplying this mixed car trade is well worth our consideration and can only be successfully met by increased acreage devoted to this industry.

From every point of view truck farming has now reached the point of being an assured success. The pioneers in this have, of course, had a great many things to contend with and met with many losses. Today, however, they need no longer experiment. Exact knowledge of what

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Glendale

ieties to plant, when to plant, how to pack for market and where to look for customers. From years of experience are now available one of the most valuable assets of every successful grower.

I have said in previous articles and I now repeat the assertion even with more force than formerly, "the productive capacity of land in this district is practically unlimited and with smaller tracts of land under intensive cultivation both population and wealth of the community will advance.

POULTRY RAISING IN THE GLENDALE DISTRICT

Mr. Nat E. Luce, poultry expert in charge of the Glendale Government Poultry Station, gives the following facts regarding this industry:

"After many years on the Pacific Coast in connection with the poultry industry, I am firmly convinced that no section of the southwest is better suited for the purpose of growing poultry and turkeys. This valley has an almost ideal climate, with long growing seasons, winter conditions unequalled anywhere, ease with which labor can be performed, raising of green feed all seasons of the year, and feed stuffs as cheap as any section of the country, housing problems readily solved, freedom from diseases and excellent soil with a dry atmosphere for sanitation, seems to me to make for a poultryman's paradise. If poultry raisers in this district will put forth their efforts in the right way, we can see no reason why they can not succeed."

Mr. Luce is well posted on poultry conditions throughout the United States and his opinions are doubly valuable to the poultry grower and worth giving attention to. Mr. Luce is in charge of the U. S. poultry station and is always ready and willing to help any who ask for his assistance, this in itself is a valuable asset to this district and one that is attracting the attention of the people who are looking for a location. We believe that any person seeking a location in which to raise poultry or turkeys will do well to give Glendale a careful consideration. Anyone wishing to obtain further information as to breeds and conditions we respectfully refer them to the U. S. Poultry Experiment Station, Glendale, Arizona.

There is one delightful thing about farming, which is not true of some other industries, and that is that each farmer is really benefitted by the success of his neighbors. In a progressive neighborhood, where good stock is kept and where farming is generally profitable, roads and schools are better, the price of farm land is higher; and, owing to the fact that a great quantity of farm products is offered for sale, markets are better. So boost your neighbors, and by so doing help yourself.

Keep constantly in mind that the leguminous plants are the great natural soil renovators. They supply nitrogen; the plant food necessary and essential in conserving soil fertility. Every farmer should be making definite plans to sow alfalfa.

ALFALFA AND ITS BENEFITS

The value of alfalfa as a hay producer, as well as its nutritious value, is pretty generally understood, but its value as a fertilizer and soil renovator is not appreciated as it should be. By renovation we have reference to putting the soil in a friable and loose condition and preparing it for perfect pulverization by the tools and implements ordinarily employed in cultivation. Alfalfa acts as a silent force or body that distributes certain gases that have a tendency to make the soil porous, thereby permitting free circulation of the air around the roots of the plants. This action of the air and water enable the plants to gather nitrogen from the air and during the decaying process, supply fertilizing and renovating qualities for future use.

Another exceedingly important problem that alfalfa in a measure solves is that of its good offices in helping to eradicate noxious and other weeds that would either become pests or consume the fertility of the soil. The alfalfa plant once well started prevents in a large measure the starting of weeds and to some extent establishes a mulch that prevents the escape of fertility from the soil. Every farm should grow more or less alfalfa even if not needed for hay on certain portions of the farm because of its value in renovating and improving the physical condition of the soil.

DON'T SELL GOOD COWS

The dairyman is passing through trying ordeals at the present time. The price his milk commands is not adequate to meet the expense of producing it. While there has been an advance in the price of milk and butter fat, it has not equaled the rise in the cost of production. With the high price of feed many are tempted to retire from the dairy business. While the grain and other crops may bring quite as much as the dairy products, bear in mind that natural fertilizer will not be returned to the soil and in time the soil will deteriorate in its capacity to keep other crops up to a standard without the expense of a fertilizer.

Instead of resorting to the preceding makeshift, try to feed your cows as economically as you can, bearing in mind that a poorly fed cow, as a rule, is an unprofitable cow.

This, in our opinion, is an opportune time to cull and dispose of the non-paying cows, and increase your herd by saving the heifer calves from the good cows. Plan next year to produce more home-grown feed. Keep in mind that like all other things, there is going to be an end to this way. Those who go out of dairying and dispose of their cows will surely regret it.

The high-priced feeds will prove a blessing if they cause you to weed out your poor cows. Remember that in the long run the cow, pig and hen will be the winners.

The man with a passion for improved live stock is the great need of the hour.

THE TEXTURE OF THE SOIL

SQUARE DEAL FOR THE BOY

Land is in good heart or good texture when it is in the right physical condition for growing crops, says Country Life in America. This means that it possesses the qualities expressed by such common farm words as mellow, loose, friable, porous, easy to work; and is not hard, cloddy, lumpy, leachy. It is not concerned with the mere richness of the soil in plant food, but it is concerned with the way in which that plant food is served to the growing crops. It does not mean the amount of water that a soil contains, but it does mean the facility with which that water is presented to the crop. Good texture means that the machinery of the soil is well oiled and in running order; not that there is plenty of raw material—plant food—in it, out of which a profitable crop can be manufactured. I know of no better way of expressing it than in the language of the farm: The texture of the soil is the way it "works up." Everybody who has handled soil at all knows exactly what is meant by that.

It must be borne in mind that the country fifteen years hence, will be just what the boys of today make it. Hence the imperative need of shaping their lives so that they may be equipped for the great responsibilities that will surely confront them. Should the boys be agriculturally educated? There can be only one answer, viz: an emphatic "yes." Why should not the boys that are to be at the helm of the oldest and most honored industry in the world be thoroughly equipped for the calling that makes possible the prosperity of the country? We thoroughly believe in co-operation and think of no instance in which it applies with as great force as with father and son. Take the boy into partnership early in life. Let his interest in calves, colts, pigs or hens pay for his clothing. Nothing will so encourage the habits of industry and foster a manly ambition more than to have the boy or boys as the case may be, partners and not tenants or servants. Allow them to have a calf that they may call their very own and allow them to have the increase from that one animal as a reward of their faithful labors. If not in live stock, set apart a patch of ground; allow him time and means for its cultivation, the proceeds to be his own. We promise you that there will be no Johnson grass found on his piece of land.

A few days since it was our very great privilege to be a guest in a delightful home where there were four bright promising boys. Each one quickly took us out to the barn and showed us his calf—and seemed much pleased at our expressions favorable to his calf. I assure you that there were no hungry calves in this lot. We thoroughly believe in the wisdom of this father, and that he is building larger than he realizes. These little timely attentions and concessions will work wonders toward developing these and other boys likewise. Treated in the way of manliness and self reliance, attaching him to the farm and the chosen occupation of his father, such a course is far better than handing out a few "measely" cents to the boy when he is forced to ask for it. This course will make the boy self reliant, and kindness of this kind will ever linger in the boy's heart and will make him worthy of handling more and larger gifts. Keep in mind all the time that the boys of today will be the men of tomorrow.

A GOOD MOVE

The appointment of a dairy commissioner, associated with the well directed energies of the dairymen of the Salt river valley, should result in greatly improved conditions in the dairy industry. Without any question the great irrigated southwest is without a rival in its adaptation to this wonderful industry, which is the source and foundation of the prosperity of this ideal section of the country which is unexcelled for dairy purposes.

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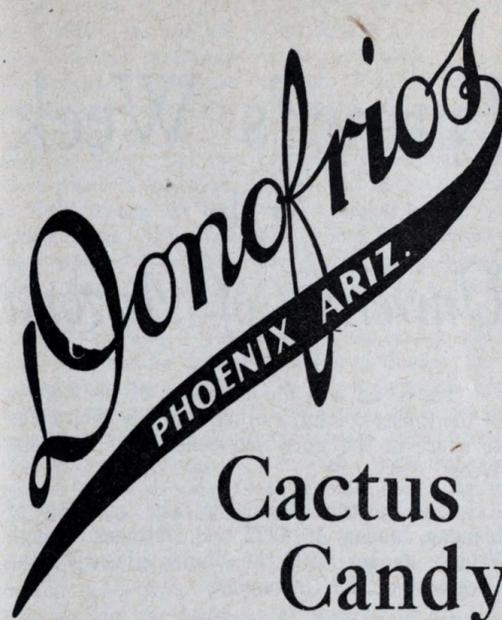
EDWIN WALTERS

Geologist and Civil Engineer
Sawtelle, California

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POULTRY
DEPARTMENT



POULTRY FARM AT GLENDALE
GREAT FACTOR IN INDUSTRY

The second largest United States poultry experiment farm in the country, the government plant one-half mile south of Glendale, is an important acquisition to the Salt River Valley and means much to the development and importance of the poultry industry.

The Glendale government experiment farm and the farm at Beltsville, Md., are the only government experiment farms in the country devoted entirely to poultry. The farm in this valley is planned to be increased in size and scope until it has become one of the most important institutions in the country concerned with the improvement of the raising of poultry.

The government poultry station here was formerly located five miles west of Glendale, but owing to its inaccessibility 10 acres of land one-half mile south of that town was purchased at \$250 per acre, the money being raised by popular subscription in Glendale and Phoenix. On "Chicken Day," at Glendale, May 20, 1921, the farm was formally turned over to the government.

Nat E. Luce, poultry husbandman, is superintendent of the farm. Although the farm was started in November, 1919, real experiment work did not begin until July of the following year. There are now 12 poultry houses on the farm, with plans to double this number in the near future with alfalfa "runs" connecting the two rows of houses.

There also are to be built a superintendent's cottage, garage, a feed-cutting house and engine house. An incubator house also will be constructed, with four machines as a first equipment. During 1922 it is planned to hold poultry demonstrations, showing every stage of the business, from the egg stage to the finishing of the raising of the bird. Farmers are invited to go to the farm and present any problems they may have. Advice will be given them on any subject connected with poultry raising.

At present there are 150 birds on the farm, consisting of White Leghorns, Single Comb Rhode Island Reds and Barred Plymouth Rocks. Of these 118 are laying hens. The eggs produced at this government experimental farm are sold at market prices. There also are a dozen ostriches on the farm six of them pure Nubians, four South African birds and two old birds. Turkeys are to be added next year.

An elaborate plan of beautifying the farm has been completed. Palms are to be planted in the driveway and all buildings are to be painted snow white. The Glendale government poultry experiment farm is directly under the direction of the department of agriculture.

MOLTING HENS

When a hen is moulting she is half sick, needs better care; so would you in a similar condition; see she gets it.

It requires green stuff daily, high protein feeds with oily matter in it to fill the new feathers, such as sunflower seed ten per cent, and oilcake meal five per cent, daily. Other good things besides.

You never can get something from nothing. If the hen has to get new feathers from poorly balance feed, the eggs will be small and a great number of days between. Nature will require her service first in new feathers no matter who comes second.

The poorer the feed, the greater will be the length of time to complete the molt.

A suitable feed will cause the new quills to fill with required sustenance, and they push the old feathers out, the fittest surviving in nature.

Every hen has a certain number of eggs or germs of them, but the question is to get all of them matured and laid in the shortest time.

Some hens have very few germs of eggs in them, others a large number. The latter are the only kind to keep, for they pay their way with a surplus if fed right.

A plain mash of bran is not a good ration. It is the mainstay of any ration, but to make it well balanced it requires a small per cent of beef scrap a little bonemeal, some middings, a trifle charcoal, a little feed-meal, to make it good, for bread and water, then water and bread would not constitute a banquet.

Wiry feathers and runty chickens show the feeding was bad, the management wrong, and conditions faulty.

THE COMMERCIAL SIDE OF
POULTRY

In the past, as poultry editor, we have been asked the question, "Does the market side of eggs pay in keeping poultry?"

It certainly depends on the man or woman managing the business more than anything else, for some people would never make a success financially in that or any other business; and again, some would make a splendid success in a profession or mercantile business, but for some reason could not fit themselves to the poultry business.

As to the egg side of the poultry business being a good commercial proposition there is no question, which means making a specialty of supplying the market with fresh eggs daily at current case count prices.

My attention was called the other day to a man and wife whom I had not seen for a year. They were just getting in their automobile, so I asked him how the poultry business was

with him, he said, "Well, I have about three thousand layers, they are laying fine (middle of August), I see they do that right along, I have a small per cent of loss in death at times, nothing to speak of, probably caused by forcing for eggs, but I cannot complain, they give me a fine living for my family, and they have bought this (the automobile, worth near \$1200.00), with many other things, besides increasing up to three thousand head of poultry in addition to some hundreds of young stock."

I remember that man commencing in the business, supplying the market with eggs; he had 500 laying hens five years ago, had to borrow some cash to put up enough buildings, kept straight at the laying hens and hatching for his pullets to take place of layers each year, has about three acres of land, half an acre growing alfalfa, a decent five room house, and a number of well made poultry houses, nearly everything paid for, with no running bills to meet at the end of the month, and he was practically a novice when he commenced, but he had good judgment and common sense.

Similar instances could easily be repeated and proved as facts which have come to my notice, that egg production pays if attended to.

SOME FACTS ON TURKEYS

It has been predicted that the southwest will in a few years be the principal field and garden ground in raising turkeys in the United States, as we have the special climate just suited for the propagation of these birds, and that the demand will increase for this kind of stock. There is no question that turkeys are a much better paying bird to raise than any other kind of fowl, especially when raised in numbers on a large area, and they are not a delicate bird by any means if certain requisites in management are attended to. Without any doubt the first and most important is to get new blood into the flock every two or three years because it adds vitality and virility into the coming poult, gives stamina to their systems so that they will grow better and faster. In birds or animals it is well known that there is nothing so debilitating to vitality as continual inbreeding, which is one of the main causes some people do not succeed in raising the birds.

In addition to giving tone and vigor to the constitution, or constitutional vigor as it is rightly termed, new blood adds to the size and weight, while continual inbreeding is very apt to create culls, and it has been known to produce a certain kind of consumption, or wasting away. But in choosing the new blood, either by birds or eggs, the points to be looked for are size, weight, vitality, and vigor with beauty of birds.

It is well known that there are to be found birds weighing nearly fifty pounds for males at mature age, hens that weigh over twenty-five pounds, and pullets that range over twenty pounds each, the latter being, of course, young turkeys less than a year old. On the other hand, the writer of this has seen turkeys that

weigh not more than ten pounds at two years, and pullets that would not scale heavier than six pounds at ten months, which proves they are deteriorated stock through constant inbreeding, or that they have been very badly cared for, or both.

Such weight birds as the former cannot be had for a song, as anyone may guess, but it really pays to give a good price for excellent stock, because birds for breeding, or eggs intended for same purpose later, are the groundwork and foundation for all future birds, for all future weights and for all future sales, so it is far safer to get the best and to pay a good price to begin with.

Any turkey breeder may have big vigorous birds that weigh from thirty pounds and up at maturity if he desires, but he must give good care to the little poults, the turkey chicks from the age of one day to four or five months. One of the causes whereby losses are sustained is by over-feeding in the early growing period. It is well known that turkeys are different than chickens in the method of obtaining their feed, they do not scratch like chickens, but if grain or mash is fed where they can get it in a heap they gobble it down, and fill to surplusage. The result soon shows by their actions, as they are at first disinclined to trot around as before, they soon become very finicky in eating, the comb or head shows a dark color and gradually turns to black and they die from over-indulgence in regular feed, really from liver disease which turns the head black from which is given the term of "black head." This disease can be remedied if it is taken in time by right medication and other management, but the true secret is to prevent such trouble by the right tonic and scanty feeding for the first month or so, in fact growing poult up to four or five months should have a scanty feed each meal with plenty of open runway to digest the feed, and where large acreage is convenient, so much the better for their health.

Young turkeys certainly will grow like weeds, one may almost see them getting bigger daily, when given proper care, and when we consider a baby turk weighs but a few ounces at a few days, and know that at ten months it is easily possible to make it weigh sixty times that, it surely pays to raise good turkeys.

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Farmer's Week
At the
University of Arizona

The Dean and the Members of the Faculty of the College of Agriculture cordially invite You to share in the work and benefits of Farmers' Week.

The program begins on the morning of Monday, January 16, 1922, and continues through Friday, ending with the dinner given by the President of the University.

For particulars, watch the newspapers and write to Director W. M. Cook of the Agricultural Extension Service, who is in immediate charge of the arrangements.

It will be safe to count on the best Farmers' Week in the history of Arizona and the College of Agriculture.

D. W. WORKING, Dean.

Your Voice
At the Other End

When the family is gathered together at the old home for the Christmas reunion, it's wonderful to be there. But if you cannot be there in person, a long distance call is the next best way.

Station-to-station service from 8:30 p. m. to midnight costs about one-half the day rate; from midnight to 4:30 a. m. about one-fourth.

The station-to-station rate, which is considerably lower than for person-to-person service, applies when you will talk to anyone who may be at the telephone called.

Wherever you are, drop in on the absent friends via Long Distance, for an exchange of Christmas greetings.



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THE MEANING OF FARMERS' WEEK

Farmers' Week at the University of Arizona is a week set apart for the public consideration of subjects of particular interest to the men and women of the farms and ranches of Arizona. The College of Agriculture is the division of the university that is especially concerned with the activities of Farmers' Week. But the university as a whole is interested.

There are many reasons for this interest. Speaking more than two years ago to a group of Salt River Valley farmers, I stated that the College of Agriculture is an institution engaged in a public service—

"supported primarily for the benefit of the people of the farms. As a college we come to you men and women of the farms and ask the privilege of your company. We are required by law to work for you; but we prefer to work with you."

It should not be necessary to argue that a university supported by the people ought to work for the people; and it ought not to be necessary to explain that the members of the faculty of the college of agriculture are more than willing to work in hearty co-operation with those who are engaged in the several branches of the business of agriculture—the farmers, the stock growers, the orchardists, and others of the great group of people engaged in agricultural pursuits.

I am trying to give the meaning of Farmers' Week. We plan a program of lectures and discussions dealing with live agricultural questions. Of course college professors do not understand agricultural problems just as they are understood by the men of the farms and cattle and sheep ranges. But when the professional agriculturists and the practical agriculturists get together in conference, it is likely that there will be interesting comparisons of facts, interpretations, and opinions; and then there will be changes of opinion. The wise professional agriculturist is able to learn from every farmer of real experience and from every cow-puncher who has ridden the range.

Do you get the idea? The Farmers' Week program will not consist of high-brow lectures delivered over the heads of the people who come to Tucson for instruction. Of course we expect to teach—to give new facts with old facts and to offer unfamiliar explanations of familiar facts from printed books and the great book of practical experience. Of course (also) we expect to learn—to get new points of view and new information from the men and women who came to the university campus for instruction and information.

Get another idea! A big school or convention gets more than instruction; more than mere information; more also than new interpretations of old facts. There is the something we call inspiration. We of the university need the inspiration that comes from the company of our friends and fellow-workers who visit us during Farmers' Week; and we have a feeling that they who visit us need the inspiration that can be secured in the

conference with us and the others who get together in spirit and purpose during the third week of January.

This year we are to have a special opportunity to be hosts to our guests of Farmers' Week. The completion of a new dormitory and the temporary vocation of a number of rooms in other buildings, together with the disposition of our students to share their accommodations with our guests, make it possible to offer free housing for the week to a considerable number of our visitors—meaning those who come to work as learners during the week. Those interested in being housed on the campus should write to the Extension Director.

Too much emphasis can not be placed on the importance to Arizona agriculture of Farmers' Week of January, 1922. Agriculture is girding itself for more constructive work than has been known in Arizona. Farmers have learned much since a year ago; so also have the members of the faculty of the College of Agriculture. Together we ought to face our problems more intelligently than ever before; and we ought to be able to work out a better agricultural program than has ever been presented to the people of our state.

So be so good (and wise) as to accept the invitation to have a share in Farmers' Week!

D. W. WORKING,
Dean, College of Agriculture.

MINOR'S INSTITUTE

Editor, Arizona State Magazine,
Phoenix, Arizona.

My Dear Sir:

I have your journal with much interest, especially the health features. I have seriously considered changing my location. I've lived in Michigan a number of years and in many respects like it very much, but for a term of years have been sorely afflicted with piles. Have tried various remedies and have only received temporary relief. I therefore take the liberty of asking you for information pertaining to the health conditions of the southwest.

Any information you may give me will be duly appreciated.

Mr. John W. Givens,
Detroit, Michigan,

My Dear Sir:

Your communication of recent date duly received and carefully considered.

While thousands have come to the southwest for health reasons and have as a rule, been benefitted, for ordinary reasons, we heartily commend the country. Yet it must be borne in mind that a stubborn case of piles in its various forms is not to be trifled with.

I would advise treatment from a reliable, trustworthy concern that has an established reputation. The writer twenty-five or thirty years ago was afflicted with Piles. After trying a number of physicians without any permanent relief, I was advised to visit the establishment of The Thornton & Minor Sanitarium, 926 McGee St., Kansas City, Mo. I state with every assurance of truth that after tarrying there about two weeks, every indication of rectal trouble disappeared.

In fact, without any hesitancy I believe these people are in every sense worthy of your confidence. Please understand that they do not know that I am addressing you. My thoughts are wholly for your benefit. I, however, would implicitly recommend them.
Yours very cordially,
W. W. P. McCONNELL,

OH BOY!

OH GIRL!

CARTER
MASON

DRY GOODS COMPANY

---0---

PHONE 4686

---0---

Have bought Salim Ackel's Big Store on Washington Street. Go, Go to their Store at once. See what is being done

CHIROPRACTIC

(Pronounced Ki-ro-prak-tik)

WHAT IS IT?

There seems to be a misunderstanding on the part of a great many people as to just what CHIROPRACTIC is.

The following definition of CHIROPRACTIC was adopted by the Conference of State Board Examiners from twenty states held at Davenport, Iowa, August 18 and 19, 1921.

"The practice of CHIROPRACTIC consists of the adjustment of the movable segments of the spine with the hands, for the purpose of releasing the mental impulses."

CHIROPRACTIC is not medicine, surgery, osteopathy, massage, mental science, electricity, nor Chiropody. CHIROPRACTIC is the greatest science known today for the alleviation of the ills of the human body.

B. J. Palmer, the developer of CHIROPRACTIC, and the greatest living CHIROPRACTOR, uses nothing but his hands and his brain in the practice of CHIROPRACTIC.

We use Palmer methods exclusively.

H. L. HESS

Graduate of The Ratledge School of Chiropactic

N. H. ATCHISON

Graduate of The Ratledge School of Chiropactic and the Palmer School of Chiropactic. Member of the Universal Chiropractors Association.

Office Rooms 9-11 Central Building
PHONE 5939 Hours 10 A. M. to 3 P. M.
Other hours by appointment
Consultation and Analysis Free.

Dairy Department

DAIRY INDUSTRY GROWING

The dairy industry is assuming huge proportions all over the country, and once its importance is fully appreciated there will scarcely be any limit to its magnitude. This industry surpasses all others in the fact that it is practically a cash deal. We have again and again emphasized the imperative necessity of better cows, cows adapted to economical milk production, in other words, cows that will easily produce twice as much as the average cow now in use in the dairying districts. The recent testing of cows in the Salt river valley conclusively show that the farmers can easily double the earning capacity of their herds by the testing and cutting out of their non-paying cows and the introduction into their herds of prepotent sires backed by a large milking ancestry. While good breeding is imperative, good and proper feeding of abundance of wholesome succulent food must not be omitted. Heavy persistent milkers are the only kind of dairymen can afford to keep. While our alfalfa makes an excellent ration, we feel that a limited amount of concentrated feed such as bran, cotton seed meal, milo maize, etc., supplementing the lagume crop with a little concentrated feed has a tendency to increase and conserve her flow of milk. Above all things keep in mind that the cow during the summer months must have abundance of pure water and shade. She should have access to good water all the time. Consult her comfort and bodily want with every assurance that she will, if of the right breeding, generously compensate you in the monthly creamery check.

THE SCIENCE OF MILKING COWS CLEAN

It is well known that the average milker gets less milk than he who does a thorough job; that incomplete milking means not only direct but in direct loss, not only an immediate lessening of the fat yield, but tends toward drying the cow. A Danish scientist has recently inaugurated a special system of udder manipulation, a sort of massage of the mamary gland, as it were, which it is claimed, augments the flow. The Hegelund method, as it is called, involves three manipulations, each thrice repeated or until no more milk is obtained. First, the pressure of the quarter on each side against each other thrice repeated, followed by removal of the milk; second, the pressure of the glands together on each side, the fore quarter being first manipulated and then the hind quarter, followed by removal of the milk; and third, the fore quarters are pressed between hand and body, the hands holding the teats loosely, then the hind quarters also followed by milking.

Trials of the scheme made at the Wisconsin and New York stations recorded a daily average increase per cow of a pound of milk and two ounces of butter. The after milk was very rich in fat, testing above ten per cent. This after milking takes not to exceed five minutes' time, often only two or three minutes. The two ounces of butter may be held at a low estimate to be worth two cents. This would be fair pay for five minutes' work, 24 cents an hour and the skim milk thrown in. Not only is more milk and butter made, but the secretion is stimulated and the lactation period prolonged. It may be remarked, however, that the difference in milk and butter yields between this method and careful stripping are not great. This Danish method emphasizes more perhaps than has hitherto been done, the actual and potential losses due to incomplete milking.

INTELLIGENT SELECTIONS

Do you want number one dairy cows? If so, begin with them before they come into existence. Select, with the greatest possible care, the sires from which you will save your heifers, making individuality the supreme test. Carefully go over their extended pedigrees examining the records of their dams and the individuality of both sires and dams, noticing carefully their merits; especially notice whether the sires have daughters of pronounced worth, and scrutinize closely the probable proportion of noted milkers as compared with the whole number sired—whether the dams have produced one or more of such daughters, and choose the sire with the best all around average.

In buying a bull, do not dicker as to price, know your bull and his ancestry and don't hesitate one minute as to fifty or one hundred dollars on his price when you have found what you need. But be sure to secure a bull backed for at least two or three generations with profitable milk producers.

Pedigrees are a good thing in their way but a pedigree without a bull that is supported with good milk producers is not what you are looking for if you contemplate a successful career in the dairy business.

CARE OF MILK AND ITS USE IN THE HOME

The consumer, rather than the producer, the distributor of milk, or the manufacturer of dairy products is the person for whose use a new Farmers' Bulletin No. 1207, Milk and Its Uses in the Home, has recently been issued by the United States Department of Agriculture. Milk is indispensable in the diet of children, because its solids are

in such form that they can be easily utilized by the body, and because it is one of the best sources of the lime needed to build bones and teeth, and of vitamine, A, a substance essential to health and normal growth. For adults also milk is an important supplementary food. It should be given scrupulous care in the home.

Milk and Its Uses in the Home

Milk is an important food, because it contains proteins for tissue forming, fat and sugar for body fuel, and minerals, particularly phosphorus and lime, for building and repairing bones and other tissues. Milk is much richer in lime than most other common foods. A cup of milk, says the bulletin, contains at least seven times as much lime as two medium-sided potatoes, and nearly twenty times as much lime as two slices of white bread or 4 ounces of average beef. This is one of the reasons why it is such an excellent food for children for bone and tooth building.

Vitamines are recently discovered constituents of food. Relatively little is known about the nature of vitamines save that they are indispensable for normal health and growth, and that if they are left out of the diet for a long period so-called "deficiency diseases" may develop. Absence of vitamine A is believed to induce rickets. Vitamine B is thought to

prevent polyneuritis and beriberi. Milk is exceptionally valuable for providing vitamine A, and supplies vitamine B in abundance. Perfectly fresh raw milk often supplies vitamine C but its scurvy-preventing power is lost when it is heated or aged. Each child should have a full quart of milk a day, if possible, is the advice given in the bulletin.

While certified raw milk is usually the cleanest milk obtainable, it usually costs a little more than ordinary milk. Good pasteurized milk is satisfactory for children, if the juice of oranges, canned or raw tomatoes, or certain other vegetables and fruits is given to provide vitamine C. Directions for home pasteurization are given in the bulletin, together with an explanation of how bacteria get into milk, and how to prevent them, and the effect of careless handling upon them.

A great many kinds of bacteria have been found in milk. Some of them cause the formation of lactic acid, which gives sour milk its characteristic flavor, while other bacteria cause milk to putrefy if allowed to stand long enough. The bacteria that cause serious diseases may also get into milk, and are sometimes spread in this way, resulting in epidemics. Special precautions as to cleanliness on the part of those who produce and handle milk are strongly urged.

THE GRAND CAFE

ARIZONA'S MOST ELABORATE DINING ROOM

Special Attention Given to Club Dinners and Banquets

34 West Adams Street

Phoenix, Arizona

Phoenix Engraving Company

S. HARRY ROBERTSON, Proprietor

LINE and HALF-TONE ENGRAVING

35 East Washington Street

Phoenix

Arizona

The Famous Salt River Valley

The Martin Realty Co.

The Martin Realty Company, at their New Office 318 North Central Avenue offers some special attractive bargains in large and small Salt River Valley lands. Homes furnished and unfurnished at prices and terms heretofore unknown. No trouble to show property—Call and talk the matter over.

Woman's Realm

By MRS. R. V. MARTIN

THOUGHT FOR TODAY

GOD'S INFINITE LOVE:—For God so loved the world that he gave his only begotten Son, that whoever believeth in him should not perish, but have everlasting life.—John 3:16.

MORNING PRAYER:—Create in me a clean heart, O God; and renew a right spirit within me.—Psalm 51:10.

IS YOUR TREASURE?—If your treasure is, there will your heart be also.—Matthew 6:21.

WIFE ASLEEP:—I will lay me down in peace, and sleep; you, Lord, only make me dwell.—Psalm 4:8.

GLAD AWAKENING:—As for me, I will behold thy face in righteousness; I shall be satisfied, when thou shalt speak with thy likeness.—Psalm 17:15.

CHARITABLE:—Brethren, if a man be overtaken in a fault, ye which are spiritual, restore such a one in the spirit of meekness; considering thyself lest thou also be tempted.—Gal. 6:1.

Pure Tea Room

218 North Central Avenue (Old Sweeny Home)

Delicious Food served in dainty like surroundings, and by a fire side on damp cold days.

Hours
Lunch, 11 to 2
Dinner, 5 to 7

During these hours we serve special short orders

aim to make our Fifty Cent meals the best in Phoenix.

MRS. W. L. HOPKINS
formerly of the Y. M. C. A.
MISS MARGARET E. RHEA
of Denver

Real Estate Salesman with car capable of making \$140.00 per week and able to manage salesmen in this district. I have a mile cord tires at lowest price with liberal discounts to dealers. This is a rare opportunity for a professional man.

WITH ONE HEAT SYSTEM
S. Michigan Ave., Chicago

MONROE GROCERY & MARKET

113 W. Monroe
Handle only Choice Steers and Baby Beef
Price that are the lowest
West of Sun Drug Co.

man be overtaken in a fault, ye which are spiritual, restore such a one in the spirit of meekness; considering thyself lest thou also be tempted.—Gal. 6:1.

GUARD THE TONGUE:—Keep thy tongue from evil, and thy lips from speaking guile. Depart from evil, and do good; seek peace, and pursue it.—Psalm 34:13, 14.

ALL IS WELL:—Let not your heart be troubled; ye believe in God, believe also in me. In my Father's house are many mansions; if it were not so, I would not have told you. I go to prepare a place for you.—John 14:1, 2.

GOD CARES FOR HIS OWN:—And they shall be mine, saith the Lord of hosts, in that day when I make up my jewels; and I will spare them, as a man spareth his own son that serveth him.—Malachi 3:17.

GOD WILL GUIDE THEE:—Be ye not as the horse, or as the mule, which have no understanding; whose mouth must be held in with bit and bridle. I will instruct thee and teach thee in the way which thou shalt go.—Psalm 32:9, 8.

Thanksgiving Day
A SONG OF THANKSGIVING:—Oh that men would praise the Lord for his goodness, and for his wonderful works to the children of men! O come, let us sing unto the Lord; let us come before his presence with thanksgiving. For he is our God, and we are the people of his pasture.—Psalm 107:25; 95:1, 2, 7.

RULES FOR RIGHT LIVING:—Let all bitterness, and wrath, and anger, and clamour, and evil speaking, be put away from you, with all malice; and be ye kind one to another, tenderhearted, forgiving one another, even as God for Christ's sake hath forgiven you.—Ephesians 4:31, 32.

HOW TO OVERCOME EVIL:—Be kindly affectioned one to another with brotherly love; in honor preferring one another; recompense to no man evil for evil. Provide things honest in the sight of all men. Be not overcome of evil, but overcome evil with good.—Romans 12:10, 17, 21.

BUT ONCE
I shall pass through this world but once. Any good, therefore, that I can do or any kindness that I can show to any human being, let me do it now. Let me not defer nor neglect it, for I shall not pass this way again.—Anonymous.

BERRYHILL'S FOR BOOKS

GAIN IN ASSOCIATIONS HAVING 100 PER CENT PUREBRED BULLS

One—two—three! One cow testing association in Washington, two in Colorado, and three in Idaho have reached the mark of having 100 per cent of their herds headed by purebred bulls. This was the count in the spring of 1921 in the territory of the western office of the dairy division of the United States Department of Agriculture. In the fall of this year one-third of the associations in western states were 100 per cent in their use of purebred bulls. In some localities it is coming to be considered a disgrace for anyone to use a scrub bull.

TESTING COWS MAY SAVE VALUABLE BULLS

"It was through the tester's suggestion that we started in with purebred cattle in earnest, which some day is going to give us a good prebred herd. Another thing the tester showed us is that we sold a registered bull to be slaughtered which had five daughters that averaged over 13,300 pounds of milk and 525 pounds of butterfat. A lesson like this will be remembered a long time." This report, received by the United States Department of Agriculture, was from a member of the Cedar Grove Cow Testing Association in Wisconsin. A bull whose daughter can make such records is worth keeping as long as he is useful.

MOVING PLYMOUTH ROCK

Plymouth Rock is to be moved again, for the fourth time in its history. The contract has been let for taking it back to its original position on the great granite base on the shore level, which is seven feet below the present site.

It was in 1774 that the Rock was first moved from its original site. On that occasion a twenty yoke team of oxen was hitched to the stone and it was hauled up to the Town Square of Plymouth to serve as a base for a flag pole. In 1823 occurred the second moving day, this time the stone being taken to Pilgrim Hall, where it remained until after forty years ago, when it had its third translation to the site known to the present generation. During this last moving the Rock was split into three pieces. These have been cemented together a condition that will necessitate great care in its final journey back to the "point or place of beginning."

This is one of the tasks undertaken by the Pilgrim Tercentenary Commission, which also proposes to remove from the canopy of the Rock the supposed bones of some of the Pilgrims who died in the first year after the landing at Plymouth and to bury them on Coles Hill as the permanent Pilgrim burial ground, thus disposing of the proposal to remove elsewhere the bones buried there.

With the contemplated transformation of the Plymouth Rock. It is to be hoped that with its return to its original site it will carry with it all the traditions of that distinctive and re-

markable New England spirit which has spread into every part of our land and into our insular possessions, to their spiritual and material benefit, a spirit which so long as it endures will make for the betterment of our country and of man kind.—New York Herald. (Ind.)

THE HIGH COST OF LIVING SOLVED

Much is being said relative to the high cost of living. All concede that it is one of the most important factors that confronts the American people. What is the remedy? There is no gainsaying the fact that the great drain upon the resources of the family is in the buying of the food that sustains life. The loss in purchasing supplies that must be consumed three times a day, 365 days in the year, is worthy of the closest scrutiny. It will readily be seen that a loss at 1095 meals during the year is a matter of more than ordinary importance. Is not this the place to commence active operations in reducing the high cost of living? The question of quality in our clothing is fully understood, but how few realize that quality enters into the supplies for your table each day and each meal in the year. Even a moderate saving in the price will amount to a large sum during the year. It matters not how honest the merchant is, if he sell his goods on credit somebody must make good the loss that always occurs in doing business in this way. It will readily be seen that a firm that buys and sells for cash can easily furnish a better quality of goods at a much lower uniform price than is possible under the credit system.

The buy and sell on the cash plan accounts for the great volume of business, the high quality of the goods and the extremely "live and let live" price that obtain at strictly cash. Let each family reduce the high cost of living by patronizing these people that are in a position to reduce your expenses.

GREAT IS THE COW

What would happen if all cows went on strike and refused to give milk for a month? There is no source of food supply that holds a more important place than the dairy cow. When the beef famine, because of high prices, struck terror to the hungry multitudes, they readily adjusted themselves to getting along without meat. When eggs get beyond a certain price, the consumer quits buying. We get along six months without oysters. We can get used to living without potatoes for a time. But should the dairy cow quit business, what would we do? We could drink water instead of milk, but what would we do for cream in coffee, on the berries, the breakfast food, etc. What would we do for butter on our bread? As much as she is abused, as much as she is ridiculed, by some, as much as she is disgraced by ignorant treatment, the cow is queen of the farm.—Western Farmer.

BERRYHILL'S FOR BOOKS

**INCREASED ACTIVITY AT
YOUNG MINES COMPANY**

A late visit to the property of the Young Mines Company is refreshing from an industrial standpoint, when compared with the conditions over the country.

Since our last visit, a good many men have been added to the force, and some very fine permanent improvements have been made.

Active work is being prosecuted with vigor on the third, fourth, sixth and eighth levels with gratifying results to all concerned. There is no doubt but what this has become one of the largest and most permanent business institutions in this section of the state, and in conversation with the management we learn that every indication is that the financing will be speedily finished to electrify the property, carry the main shaft three hundred feet farther down, and install the mill. It is the purpose to have these three further necessities dovetailed in so as to have them completed as nearly as possible at the same time.

With this finished, the property then goes into the producing class, and with the ore reserves now blocked out, there is not the least danger of the property not being able to not only carry itself, but produce handsome dividends in addition.

The management is intelligent and conservative, and this property has been brought to the point it has, and its permanency insured, for the reason that time has been taken and intelligence used, and again, the money put up for the proposition has gone into it, and not into the promoters pocket.

THE LINCOLN PHAETON DE LUXE

The new Lincoln automobile is creating the most favorable comment, and its smartness and beauty are features of its unusual design. Its very aspect suggests the unusual combinations of dash and durability. The traditional Lsland-Built quality of entire dependability is fashioned into its structure.

There is present a new distinctive note in body line and finish, yet you would not find it possible to discover the slightest infringement on symmetry and quiet good taste.

The body panels are of hammered aluminum, reinforced by a frame of strongly braced construction. Upholstery is of the highest quality brown Spanish leather. The new type windshield, the comfort-assuring ventilator, the mahogany cabinets, and the interior metal-ware are in full keeping with a vehicle of the finest pattern.

For your own enlightenment, see the car. Ride in it. Drive it yourself. Do this in your most critical mood, and it is a certainty that you will become enthusiastic regarding its many superior features.

Geo. H. Hillis, Special Representative. CAL MESSNER, 4th Avenue and Adams St., Phoenix, Arizona.

BERRYHILL'S FOR BOOKS

SIGN CENSORSHIP

(By Edwin Walters)

The sense of sight is the principal medium in the acquisition of correct English.

Sound is an important factor in learning to spell the words in most languages, but English and French are exceptions.

These two languages, when expressed in writing, depend, for their correctness, much more upon sight than they do upon sound—because of their silent letters, multiplicity of sounds represented by one letter, the multiplicity of letter representing a single sound, and other irregularities and incongruities.

Sight is the silent teacher that is continually employed. The objects on which its exercises are usually permanent, while sound is transitory.

Signs, bill boards and display advertisements are, too often, corrupters of our language.

They are frequently silent teachers of error. No one has a right to flaunt such before the public sight.

Thousands of objectionable examples could be given, but consider a few only:

The omission of the apostrophe to denote the possessive case, as in "Mens shoes," etc.; "Pants for sale"; no noun in the English language written "pants"; "Gents ties"; "Gents" is a disgusting vulgarism; "Matches a penny a box"; the nominal and normal value of a penny is a little more than two cents, and is not current in the United States; "Peas ten cents a can," for "pease ten cents a can"; We say, "two peas," or "five peas," but whenever we mean peas in bulk we should write the word "pease"; "Chilli concarne," for "Chile con carne"; "Frijole beans," equivalent to "Bean beans" when "Mexican beans" are meant; "Grocery and meat," for "Groceries and meats," and so on ad infinitum.

In a large city this sign was displayed for years: "Homade bread," but such a sign will not do so much harm as will one that is nearer the correct form, for usually a child we see the absurdity of "homade."

At the best we must blunder often in the use of English. Knowing our short-comings, we should remove every possible obstacle from the way—especially from the young. No sign or other display advertisement on which are errors in spelling or grammar, or slang words, should be allowed to parade before the public sight.

A weedy farm is an abomination and a waste of good land. Make a desperate effort to destroy the weeds before they go to seed. If necessary break up and cultivate the infested fields. Farmers cannot afford to sacrifice the fertility of their soil in growing weeds and let their live stock go hungry.

At the present time is costing practically \$62.00 per capita to sustain a federal form of government, while in Thomas Jefferson's time the cost was \$1.52. In these days would not a little Jeffersonian simplicity be acceptable?



the most powerful engine in the world depends on its source of power!

The refining of Red Crown gasoline is based on a thorough, scientific study and knowledge of the fuel requirements of the automobile engine.

Keep a record of your trip mileage, also note the power and flexibility of your engine with Red Crown gasoline, and you will be convinced that Red Crown, "the gasoline of quality," is the gasoline for you.

Look for Standard Oil Service Stations and for the Red Crown sign at garages, service stations, and other dealers. There you will be able to get good service with Red Crown gasoline.

STANDARD OIL COMPANY
(California)



The Gasoline of Quality

Strangers Within Our Gates

How about the strangers in Phoenix? Let's give them a cordial greeting, a cheerful word. Show them how many friendly people live in Phoenix.

THE VALLEY BANK

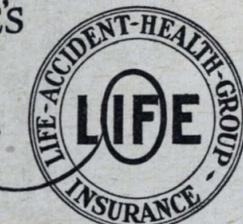
Phoenix, Arizona

MEMBER OF FEDERAL RESERVE BANK

THE EQUITABLE'S

Complete Circle of Protection

Guards against the ever-present IF in



Insurance that Insures Protection that Protects

THE EQUITABLE LIFE ASSURANCE SOCIETY OF THE U.S.

Write for booklets—"A College Education For Your Child" and "What Is Your Life Worth".
W. S. GOLDSWORTHY, Representative
220 National Bank of Arizona Bldg. PHOENIX



Furniture

—Correct In Design—
—Reasonable in Price—
Honest and Sturdy in Construction—

Every piece of Furniture in this Store is made and sold in a way to win your confidence.

It is not only correct in design, but it is built according to exacting standards of quality and workmanship—It is the sort of furniture that distinguishes the home from the mere house.

DORRIS HEYMAN FURNITURE CO.
Established 1885

PHOENIX—AT THE CORNER OF FIRST AND ADAMS

STATE DIRECTORY

—OF—

GARAGES AND SERVICE STATIONS

Every courtesy and accomodation consistent with sound business policies will be extended to the members of the Automobile Club of Arizona by each of the Garages and Service Stations listed below. Tourists and strangers will be welcomed at these establishments and their requirements given the most efficient and expedient attention.

ASH FORK

"LOOK FOR THE RED BRICK STORE"

Everything for the Tourist
Standard Oils and Gasoline
Tires, Tubes and Accessories
Staple and Fancy Groceries
PITTS & WASHINGTON
Plenty Good Free Water

CHANDLER

BILL BROOKS SERVICE STATION

Automobile Accessories and Supplies
Standard Tires and Tubes
Garage and Battery Service

DOUGLAS

SOUTHWESTERN AUTO EXCHANGE

C. F. McCord, Prop.
559 Ninth St. at F. Ave.
Savage Tires Paige Cars
Accessories, Gas, Oils, Repairs
Storage
Make Your Headquarters Here

MESA

THE MESA GARAGE

Jack Asher, Prop.
Auto Repairing and Storage
Vesta Batteries
Goodyear and Diamond Tires

MESA SSERVICE STATION

Automobile Accessories and Supplies
Gasoline and Oils
Kelly-Springfield Tires and Tubes

JACK'S SERVICE STATION

Service That Satisfies
Tires Tubes Accessories
Phone 44

KINGMAN

UNDERWOOD TIRE CO.

Federal Tires
Wire Wheel Service
Expert Vulcanizing

PHOENIX

METROPOLITAN FIREPROOF STORAGE GARAGE

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Day and Night Service

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Wrist Pin Shop

Wrist Pins for all makes of Automobiles, Trucks and Tractors
Piston Rings, Standard and Oversize
in Width and Diameter
PHOENIX ARIZONA
Mail Orders Given Special Attention

A MILLION AUTO PARTS

Any Part for any Car—New or Used
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Oldest, Largest and Most Reliable in the Southwest.
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Best Cores to be Obtained Installed in any Make of Car or Truck
Cores Shipped to any Garage in Arizona same day order is received
307 N. Central Ave. Phone 5009



ARIZONA BATTERY & IGNITION CO.

Expert Storage Battery and Electric Equipment Repairs
R. J. JONES, Prop.
9 E. Van Buren Phone 1050

APACHE GARAGE

Home of the "Red Devil" Wreck Car Storage and Supplies
123 W. Adams St. Phone 736

CACTUS GARAGE SALES CO., Inc.

Casa Grande Stage Line—Also Van Buren Street Busses
Day and Night Service
124-26-28 South First St.

MORGAN MOTOR SERVICE Incorporated

"Everything for The Car"
Van Buren and First Sts.
Speedway Gasoline and Motor Oils

3 SERVICE CARS PHONE 4135

NED CROSS GARAGE
AUTOMOBILE REPAIRING
Gasoline, Oils, Tires and Accessories
Cor. 6th Ave. and Van Buren

PHOENIX PLATING CO.

W. T. Schubauer, Mgr.
Gold, Silver, Nickel, Copper and Brass Plating
Headlights and Reflectors Re-Silvered
Polishing and Re-lacquering Brass Beds, Oxidizing and Polishing of all Kinds.
213 East Adams St. Phone 712

E. Hickman
A. P. Wadlow
PHONE
1-3-1-4

THE CITY CLEANERS AND TAILORS
DRY AND STEAM CLEANERS

Men's Furnishings
17-19 East Adams Street
Phoenix, Arizona

Strangers Within Our Gates—

How about the strangers in Phoenix?
Let's give them a cordial greeting, a
cheerful word. Show them how many
friendly people live in Phoenix.

THE VALLEY BANK

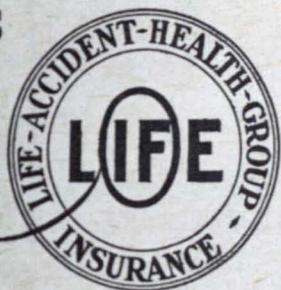
Phoenix, Arizona

MEMBER OF FEDERAL RESERVE BANK

THE EQUITABLE'S

Complete Circle of
Protection

Guards against the
ever-present IF in

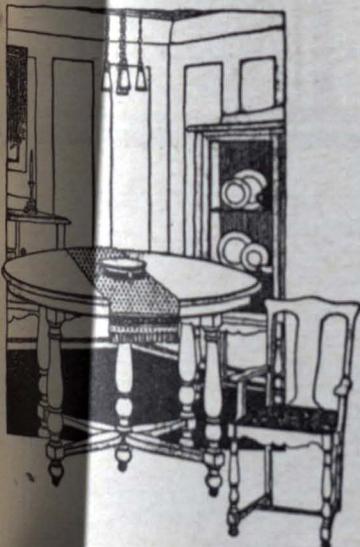


Insurance that Insures
Protection that Protects

THE EQUITABLE LIFE ASSURANCE SOCIETY OF THE U.S.



Write for booklets—"A College Education For Your Child" and
"What Is Your Life Worth".
W. S. GOLDSWORTHY, Representative
220 National Bank of Arizona Bldg. PHOENIX



Furniture

—Correct In Design—

—Reasonable in Price—

Honest and Sturdy in
Construction—

Every piece of Furniture in
this Store is made and sold
in a way to win your con-
fidence.

It is not only correct in design, but it is built according to
exact standards of quality and workmanship—It is the
sort of furniture that distinguishes the home from the
mere house.

DORRIS HEYMAN
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