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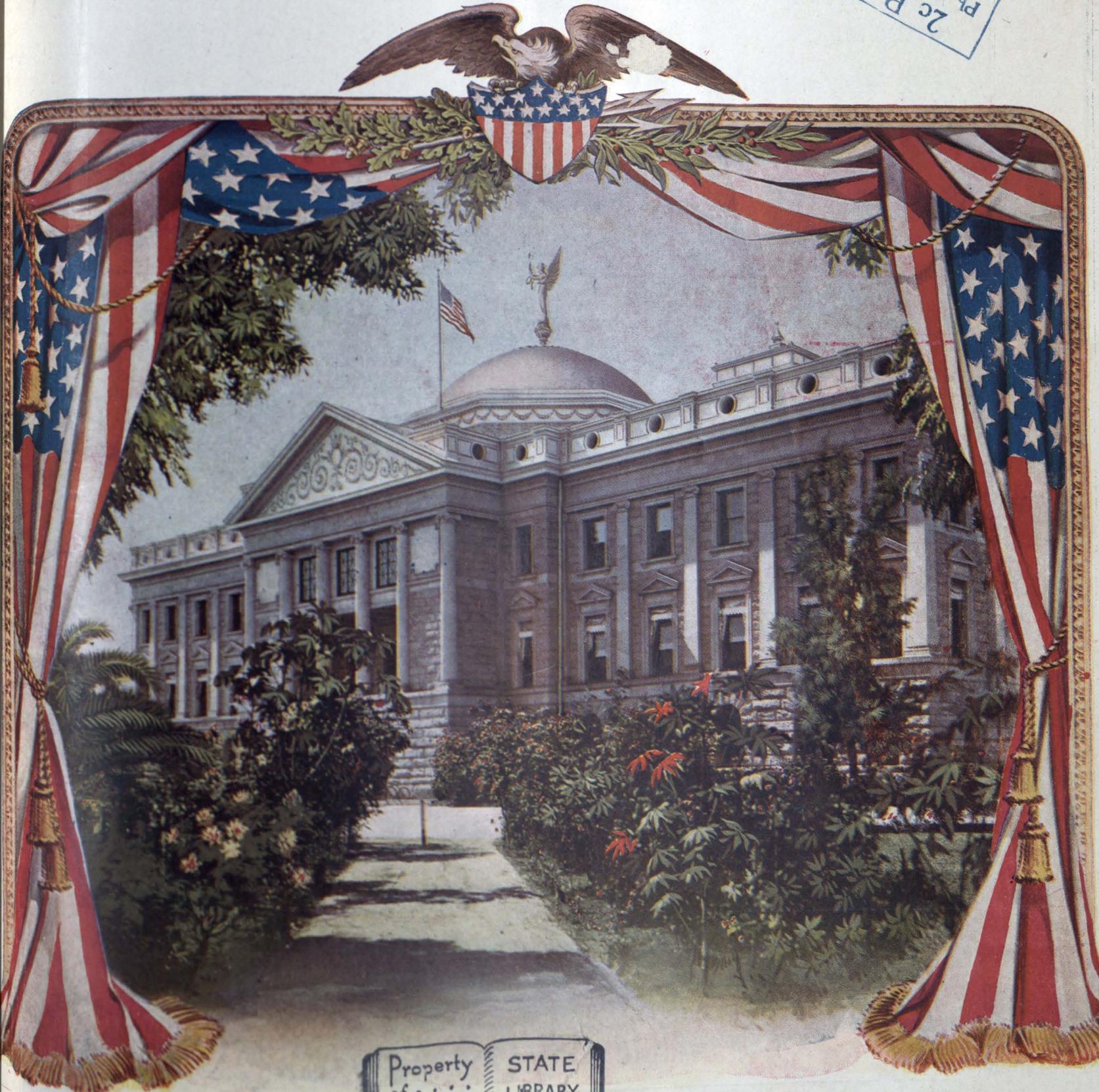
Volume XI

THE STATE MAGAZINE

Number 8

and *Pathfinder*

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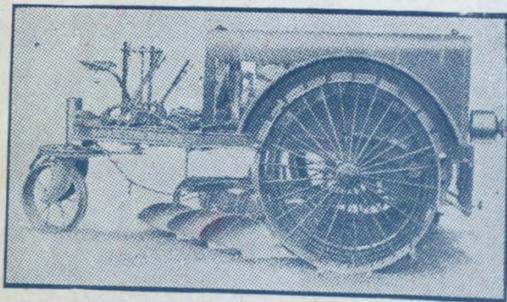
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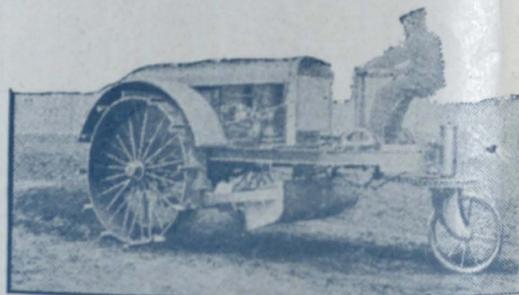
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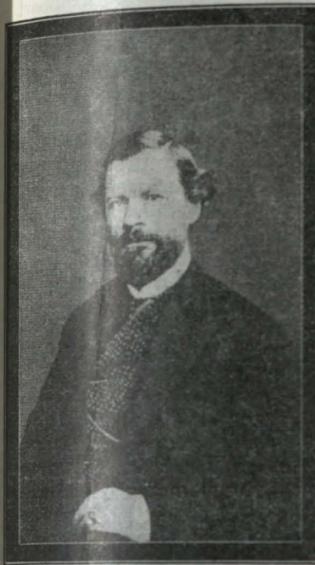
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Phone 3288

## ARIZONA IN STORY

This section of Arizona Magazine will be devoted to the encouragement of the general literature and stories of romance and adventure of Arizona and the Southwest.

The Father of Arizona  
By SHARLOT M. HALL



Chas. D. Poston as First Delegate to Congress from Arizona, 1865.

More than once a land has changed flags not from any value set upon it, but because it chanced to lie in the path of conquest. When the war between the United States and Mexico ended in 1848 it left the conquering flag in possession of California and New Mexico; but between the rich, mission-set coast state and the old pueblo towns of New Mexico stretched a wide reach of desert and mountain—unmapped, unvalued, unconsidered.

It was part of the United States, but not a dozen Americans had seen beyond its barest fringes, and since the days of the great explorers no Spanish expedition had tried to penetrate the tangle of sharp-cut canons and rugged ranges north of the Gila River. There were shadowy traditions of copper and silver and gold in the mountains breaking off from the Mogollon plateau; but the only certainty was the fierceness of the Apache raiders who swooped down on the little Mexican settlements in the Santa Cruz Valley and all but exterminated them.

There was not a settlement of any sort in the unknown, unnamed country till the Gadsden purchase in 1853 added the hard-held Mexican towns along the Sonoran border. The very day after that treaty was first signed, December 14, 1853, an exploring party sailed from San Francisco, headed by the man who was to carve a state out of the unconsidered wilderness, give it a name, and force for it recognition from a protesting country and Congress.

It is rather an interesting circumstance that Charles Debrille Poston, the first friend of Arizona, and Abraham Lincoln, whose signature was to give her a place on the roll of states, were both born in Hardin County,

Kentucky, and both chose to become lawyers in early manhood. In 1850 Poston went to California by way of the Isthmus of Panama and took the position of chief clerk in the custom house at San Francisco.

It was information concerning the copper and silver mines of northern Sonora, obtained while in this place, that led him to associate himself with some friends in the Sonora Exploring and Mining Company. The party of about twenty-five, equipped for a considerable journey through the interior of the country, landed on the coast of Sinaloa and after examining silver mines in the vicinity of Alamos, went on up the Yaqui River.

Poston says: "At this time the Yaquis were a semi-independent tribe numbering about eighty thousand. They had not acknowledged the independence of Mexico and maintained a primitive government, electing their own officers and collecting duties at the mouth of the river. We found them exceedingly hospitable, living on rich land in a delightful climate, well supplied with flocks and herds; spinning and weaving, dancing, marrying and church-going.

"On arriving at Guymas the Mexican officers were not cordial. The news of the treaty had preceded us and they complained that we had acquired a territory larger than Great Britain by the simple signature of Santa Ana, without the approval of the Mexican Congress. We told them we had not come to discuss politics but to open the mines, civilize the country, protect them from the Apaches, and purchase their provisions.

"With a caravan of pack and saddle mules we traveled across the country, following the Mexican trails from Guymas to Tucson. We located the Ajo copper mines and saw much indication of mineral, but the difficulties of opening up the new country were appalling. There were considerably over a hundred thousand square miles, with impenetrable mountains, desolate deserts, and probably fifty thousand hostile Indians.

"The entire Mexican population did not exceed three hundred and there were no Americans. The old mission church at San Xavier del Bac stood in solitary grandeur as a monument of a perished civilization. The Casa Grande, near the Gila River, was a still more melancholy relic of a vanished race.

"The Pima Indians on the Gila River, numbering at that time about ten thousand, were the only producing and friendly population in Arizona. There were no settlements north of the Gila, nearer than the Mormon towns in Utah. To the east there were a few straggling towns on the Rio Grande, and the nearest military post was Fort Yuma on the California bank of the Colorado River.

(Continued on page 15)

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*Phelps Dodge Mercantile Co.*

BISBEE

DOUGLAS ARIZONA

MORENCI

## League of Southwest

Mr. Colvin's next interest, as our readers know, is the "League of the Southwest," and the harnessing of the Colorado river for irrigation. He devoted one entire issue of Arizona State Magazine to this cause and many articles. The president of the league, Governor Campbell of Arizona, gives him much credit for making the League's program better understood to the people of the Southwest, who will be its beneficiaries. While gathering data on the need of United States entering a world league, he will also collect further material for publicity on the League of the Southwest and necessary legislation to support it.

## An Economist of Wide Experience

Mr. Colvin was born in the village of Bourbon, Indiana. After graduation from high school and attendance at college, at the age of 18, he pushed out for himself. He roamed over the western states engaging in many occupations, finally proving up a homestead claim in Oklahoma and graduating from the state normal. After some years in law and politics he was sent by the government to Philippine Islands as supervisor of schools. The result of his constructive work in the Philippines still stands as a monument to his executive and organizing ability. Leaving the Philippines he started a first-hand study of world economics and government by travel in Japan, China, Straights Settlement, Egypt, Palestine, Italy, Switzerland, France and England. After doing research work at Oxford university he returned to America pursuing his studies in University of Indiana, University of Washington, where he received the A. B. degree, and Yale University, where he received the L. L. B. degree, specializing in international law, economics and trade relations. For a number of years Mr. Colvin practiced law and did economic work for corporations. Later he became professor of international law and trade relations at Henry Kendall College, from where he was called to act as head of the department of economics at University of Arizona and member of its law faculty. He next was made chancellor of the College of the City of El Paso and director of its School of Commerce. Chancellor Colvin made great strides with the college up to our active entry in the war, establishing through the Pan-American Union, scholarships in all Latin-American countries and organizing college courses in Pan-American commerce to foster better trade relationships. His Spanish-speaking and writing ability enabled him to go far towards realizing the college's purposes when our entry in the war caused him to withdraw to report for enlistment in the army. Later he was placed for economic work in the army Red Cross, where as associate field director he served until April of this year, when at the suggestion of Col. McClintock, Arizona State Historian, and other friends of the late Clinton Scott, former editor, Mr. Colvin returned to Arizona to reorganize Arizona State Magazine and put it on a basis of continued service to the state. This he quickly did, after becoming its publisher and editor, rapidly increasing its size and circulation and securing it national recognition, largely through his strong and widely read editorials. He purchased the Pathfinder Magazine and combined it with Arizona State Magazine, thereby increasing its scope as an industrial and economic journal and at the same time adding thousands to its family of readers. Last month Mr. Colvin ushered us into the editor's chair with the promise that this magazine should hold first place among the publications for which he would write, so we are glad to be able to give assurance that our pages shall now and then bring him back to readers of Arizona State Magazine.

P. H. Barry, governor of Soldiers' Home, passes to the great beyond. The Pacific Soldiers' Home, in fact the Great Southwest, will keenly feel the loss of General P. H. Barry, who passed away Tuesday morning, December 31, 1920, after an illness of a few weeks. Having been governor of the Soldiers' Home since March 1, 1913. During his term of office he had introduced many changes in the conduct of the home that proved to be beneficial to the veterans. Governor Barry took an active interest in all civic, social and patriotic affairs in the Southwest. He was a brilliant student of political economy and in all respects a man thoroughly equipped for the important work he was engaged in. His death will cause deep grief among the members of the Grand Army.

The career of General Barry as a citizen and soldier was of such a character that it placed him in a leading position among the veterans of the Civil War. He was prominently engaged in many important battles and his loss will be keenly felt throughout the country. This will especially be true of the Pacific Soldiers' Home, where he had rendered an unceasing service that will never be forgotten.



MILTON COLVIN—JOURNALIST AND EDUCATOR

By CAPTAIN W. W. P. McCONNELL,  
Editor, Arizona State Magazine

Howard Milton Colvin, better known in the Southwest as Milton Colvin, has retired from the editorship and publication of Arizona State Magazine and the Pathfinder Magazine, so as to be free for investigation and research work along economic and government lines. He will first travel through states that belong to the League of the Southwest and later to Leland Stanford for research work, where he will have the advantages of the best reference libraries in industrial, economic and government lines in America. It will be remembered that Professor Colvin, both as an educator and journalist, was the foremost sponsor in the Southwest of Ex-President Taft's "League to Enforce Peace." He was among the same fifty leaders of thought in this country to be honored by being appointed by Mr. Taft, one of the vice-presidents of the League. The list of vice-presidents included such notable leaders as Cardinal Gibbons, Senator Lodge, Lyman Abbott, President Lowell of Harvard, David Starr Jordan of Leland Stanford, Elihu Root and others. Later Mr. Colvin withdrew from the vice-presidency to become a member of the National Committee.

## America Must Enter International League

The League to Enforce Peace was the title given the American branch of what became a world-wide organization having different names in different countries, but for the one end of "enforcing" peace by putting "force," both economic and military, behind a better international law. This organization in other countries backed and made possible the League of Nations. But the American branch split on "the League with reservations" or the "League without reservations" and the result was that United States has not yet gone in the League. Mr. Colvin believed with those who favored Harding for presidency, in the matter of reservations protecting American rights and commerce. Having worked hard for the better understanding by public opinion of the necessity of United States entering some form of world organization for self-protection, he is now beginning to collect data and systematize information in order to put in book form the international ideal of a practical world state to which all free nations will belong, which will reduce world armament, and to a great extent, substitute "understanding" for war. Mr. Colvin believes future wars will be economic in their causes and that a World Economic League will largely remove the industrial causes of war and establish an international credit and distribution that will do for the world what the Federal Reserve Bank system does for United States, and what improved banking facilities and long time credits are beginning to do for the Pan-American Union under United States leadership.

## ARIZONA

THE STATE MAGAZINE

and Pathfinder

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## EDITORIAL

## CLIMATE

Mother Earth may offer the choicest fields, the sun may lavish its brightest rays, the gentlest showers may float down on the balmy winds of spring to nourish the infant plant, yet if this child of God has been touched by the blighting breath of decay, or is the offspring of perverted parentage, all the kindly days of loving nature, aided by the hand of man, but emphasizes the more strongly, that whatsoever a man soweth that shall he also reap.

With the consolidation of the Arizona State Magazine and the Pathfinder, it is the purpose to construct and develop a journal devoted to the natural and material resources of Arizona and the great Southwest. Believing as we do, that the further development of the above district is at this time one of the most important in the interest of this most wonderful and promising sections of country in the United States. It will be our purpose to speak frankly and candidly of its unsurpassed opportunities and advantages in a manner that will lead seekers of homes, including city homes and acreage property, that they may fully understand its real climatic, livestock and agricultural advantages. The untold opportunities in this unrivalled sun-kissed land unquestionably present the ideal opportunities of the seeker of a perfect home—realizing that modern agriculture in all its bearings is the unquestioned source of all the county's prosperity and the happiness of its people.

While the advancement has been rapid and intensely satisfactory, yet it must be conceded at the present time we are on the very threshold of a development that speaks volumes for the future of this favored section of wonderful and unparalleled country. It will be the purpose of our consolidated journal to give correct and detailed, reliable information pertaining to the country—likewise refer to the sections that have heretofore been unfortunate in not being amply supplied with an abundance of water for irrigation purposes.

The League of the Southwest, composed of the leading men in the Southwest, possess all the facts pertaining to this new and most promising country and will gladly aid the prospective home seeker in every way possible. A call at 33 West Monroe street, where a consultation can be had with Mr. Edgar Kennison, commissioner of the Southwest League, who will gladly cooperate with any one interested in the immediate and permanent development of this most fertile land. He will gladly cooperate with any one seeking a home and who favors a greater and more rapid development of this most remarkable and promising country. This means a prosperity that words are inadequate to unfold—where promise and duty of production is thousands of years past due, because of the fact that the living water has not been brought into use. Now, without question this is the accepted year of grace to begin this greatest and most important enterprise since the building of the Panama canal, and here is the place and time the forces will be mobilized that will create the new and coming empire of the Great Southwest.

## LEND A VIGOROUS HAND

Somebody has well said: "Don't waste time sympathizing. Help."

That is a fine sentiment. Most of us are sorry for something or somebody, but we do not always lend a vigorous hand to help remove the condition that makes us sorry. It is a great thing to help. It is worth more than much fine gold to do somebody a good turn. All the wealth that you can carry around in your pockets or lock up in your chest is nothing compared to the feeling of satisfaction that follows doing something to help somebody that is in need.

## IT PAYS

Salt River valley is conceded to have the most perfect winter climate in the world, and from a health point of view is considered the peer of all mild climates. Three to six thousand tourists annually enjoy the three and four months of steady sunshine of the winter months here. Not only is it a healthful place to live and rear a family, but the climatic conditions, both summer and winter, combined with the perfect irrigation system, comprise the most valuable asset that the valley possesses among many, as it is just the climate to cause the richest crop production of the known world.

The farmer who has maintained the fertility of his soil suitably prepared his seed bed and cultivated his crops properly in the Great Southwest, has been abundantly rewarded. The seed time in a man's career, in all kinds of live stock breeding is at hand. The wise man will avail himself of the many opportunities presented to him in the great Salt River valley to secure good sires and foundation stock from our enterprising breeder who have secured sires of excellence at high prices. The quality has been sought for regardless of price. In order to be successful a man must have the best blood obtainable; he must likewise have confidence in his business as well as in his capacity. If a man has the conviction that his enterprise is founded on real merit, he is practically sure of making a success of it.

## DEVELOP THE LOCAL TRADING POINT

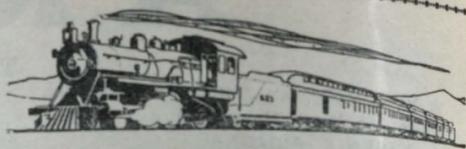
The only safe and reliable foundation for co-operative enterprises to be managed in bettering the conditions of farmers is a harmonious, united home community. The developing of the local trading point depends in a large measure upon the united efforts of the producer and consumer. This is the policy of the Rural Organization service of the U. S. Department of Agriculture. The Department has had many inquiries from farmer and farmer's organizations relative to co-operative buying. Whenever this question has arisen, these organizations have been advised as far as possible to buy through local dealer where they will act in co-operation. It must be conceded that the development of the town and country tributary have an interest, that they will go up or down together, consequently they should work in harmony as they are all benefited by the combined results of a united people.

## FERTILITY

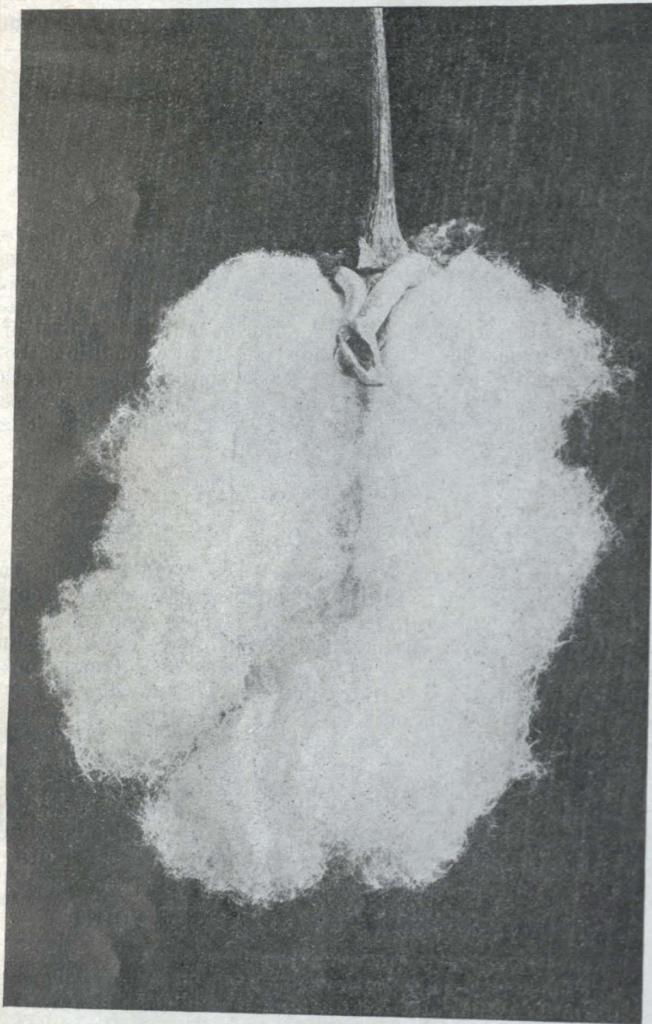
The great question that confronts the American farmer is going to be based upon the improved conditions of his soil organisms. We must change the plant food contained in the soil in a form available to nourish and feed the growing plant. The successful farmer of the future will be a man who understands how to handle the soil and make the conditions favorable for these elements in the soil that they may do their work in the most efficient manner.

Our alfalfa and other legumes are necessary as soil renovators, but to get the best results it must be borne in mind that they need and depend upon certain elements of plant food in the soil, as well as in the atmosphere, and when we fail to keep them supplied with potash and phosphoric acid, they are not capable of doing their best work.

# What's Doing in Arizona



*A Quick Industrial Survey of the State for the Month*



True, our cost of production has been too high, but so has the cost of production throughout the South and our cost is common with theirs is bound to come down as labor becomes more plentiful and less costly and a balance of value in proportion to the cost of production will unquestionably remain in favor of Pima cotton.

There should be no real consideration given to any proposition to change the variety of cotton grown in this district, nor to allow the bringing in of any other type of cotton and the deterioration of our seed supply, until a better cotton is produced than the cotton we now grow. What we need in this district is not a mixture of cotton varieties but a more sane and intelligent method of growing and handling the fine cotton that we can and do produce.

We need a more careful selection of land to be planted to cotton and greater diversification of crops, and a more expert handling of the crop.

Then in order to realize the greatest possible return from the sale of our cotton, we must have a marketing organization of the firmest character that can and will control a major portion of the output of this fine cotton.

Our present association was organized some two years ago, during the time of great prosperity and when it was quite impossible to persuade the growers to go into any type of organization other than the most informal sort. Their experiences, however, of this year, have brought them to a belief in a firmer type of organization and they are, I believe, now ready to join and support an organization based upon firm contracts for the delivery of their cotton to their organization to be handled under one head and sold through one office, rather than have each man to do his individual selling and come up against all the disadvantages that that antiquated system carries with it.

With this idea in mind, the Association has had under preparation for some months, a plan for re-organization under what is popularly known as the California plan. Under this plan the growers will contract to turn over their product to the Association and the Association will attend to the financing of the cotton and the sale of it, and settle with the growers on the basis of the sale price received.

There is no question that this plan when put into effect will do a great deal toward stabilizing the future of the industry, stabilizing the value of land and providing a solid foundation for the future and continued prosperity of this section.

To accomplish this it will be necessary to have the co-operation not only of the cotton growers themselves, but of the business and professional interests of this district, all of whom are dependent for their prosperity upon the prosperity of the producers of our leading crop, which now is and for many years will be, Pima long staple cotton. —Adv.

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# HOME AND FAMILY SECTION

RAIN ON THE DESERT

A gray mist on the desert far and wide,  
The rain's chill fingers rapping on my wall.  
Far off I hear the distant river's fall,  
Beneath the dripping brush frail creatures hide;  
The velvet-footed rabbit leaps aside  
For shelter, and the faint insistent call  
Of shivering quail comes through the still-gray pall.

The eye can glimpse the wet road winding 'round  
Where one lone tree, defiant of the blast,  
Guardian of all the rain-swept landscape vast,  
Stands steadfast-rooted in the rocky ground.  
While sullen clouds a deeper gloom forecast,  
I watch from my lone cabin, dry and warm,  
The wet-winged legions of the conquering storm.

MRS. R. A. WINDES.

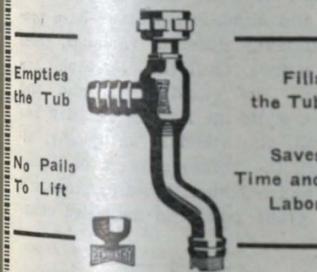
Tempe, Arizona.

## WHAT PUZZLED HER

"I understood the text, all right," remarked Aunt Ann Peebles after the Christmas sermon was over; "but the preacher's explanation of it puzzled me a good deal."

## Washing Machine Drain THE WOMAN'S FRIEND

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WIT AND HUMOR

According to the Mexican Ledger, John Stobie, a Wellston magistrate, recently united a negro couple with this ceremony:

"Jim, will you take Bet,  
Without any regret,  
To love and to cherish,  
Till one of you perish,  
And is laid under the sod,  
So help you, God?"

Jim having given the usual affirmative answer, Judge Stobie turned to Bet:

"Bet, will you take Jim  
And cling to him,  
Both out and in,  
Through thick and thin,  
Holding him to your heart,  
Till death do you part?"

Bet modestly acquiesced and the newly-married couple were dismissed with this benediction:

"Through life's alternative joy and strife,

I now pronounce you man and wife.  
Go up life's hill till you get to the top,  
And salute your bride, you dusky fop."  
—Exchange.

## COULDN'T FAZE ETHEL

Ethel had her quick wit working that minute! She was sitting, after the Sunday dinner, with a gallant captain in a charmingly decorated recess. On her knee was a diminutive niece, placed there pour les convenances. In the adjoining room, with the door open, were the rest of the company. Finally the little niece was heard to say in a jealous and very audible voice: "Auntie, kiss me too."

"Certainly, dear," returned Ethel. "But you should say twice, dear; two is not grammar."

If you have no relatives where your girl can visit, pay her board for a few weeks each summer in some good farm home.

The children will grow up with a bigger, broader outlook for the problems before them, just as you have been broadened by your contact with such things.

The income of a chief petty officer in the United States navy is \$126 per month.

NEW FRIENDS OR OLD?

We have some old friends. We know them very well. They have faults, all right, and some irritating habits. Unfortunately, they know us in the same thorough way, and we suspect that some of our perfectly innocent and harmless little mannerisms may be displeasing to them. And yet, in spite of these things our friendship is strong and lasting. It does not depend on surface qualities, but the big, solid ones that are at the basis of life—truth, honor, understanding, loyalty.

Do not choose a friend for beauty or brilliant conversation, or pick one for elegant manners.

We want friends who will be ready to sacrifice themselves for us if the time of necessity comes—and for whom we would gladly sacrifice ourselves. We want to be able to lean on a friend and have confidence.

Once in a while a stranger rushes at us in an effort to force himself into our lives. He is so good-looking, so charming, so anxious to insinuate himself into our good graces that we might say:

"This new friend promises to be

better than the shabby old friends are. This gallant chap takes us at our face value and see fine qualities in us that the dingy old friends do not know we have. It takes the new friend to really appreciate us."

Oh, do not cast aside the old friends. New ones seldom live up to expectations. Things offered so readily to the first passerby is of little worth.

When David went forth to fight with Goliath he refused to wear any armour that he had not tried out.

He chose his weapons as we would choose our friends. The humble, homely old sling that had never failed him and that he knew all about, was better for him than a gorgeous sword that might break in the crucial moment of the duel.

There is no such thing, really, as a new friend. It takes time to make a friend as it does all other worthwhile things.

If "Made in America" becomes a national slogan, we shall need more wool, and that will mean more sheep, which means greater prosperity for the American farmer.



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as Well as Beauty

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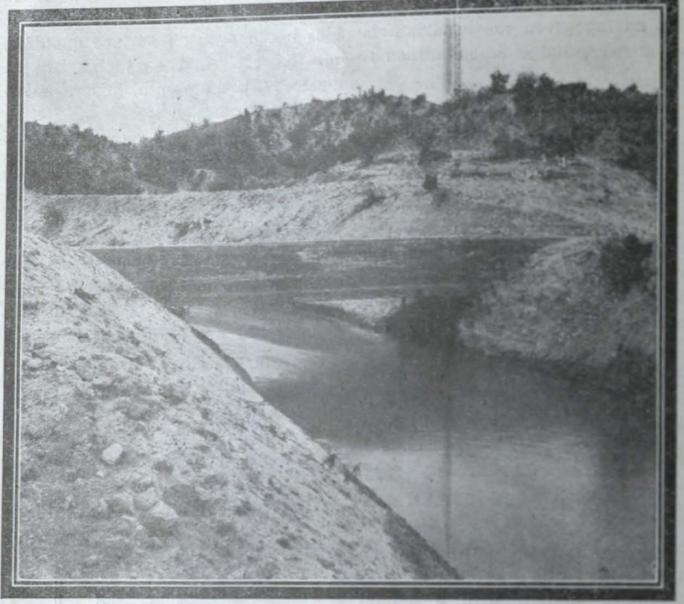
# Water Users Association Section



[Editor's Note:—Water Users, this is your page. Each month it will carry an official report to you. Write us what you think of it. If proper interest is taken, we will throw the pages open for contributions from the members and make this a "live wire" section that you will always want to turn to as soon as ARIZONA MAGAZINE comes to your door. This section will be open to all Water Users' Associations of the state.]

## DECLAMATION REPORT OF SALT RIVER PROJECT, ARIZ., FOR DECEMBER, 1920

By F. F. HENSHAW,  
Secretary Salt River Valley Water Users' Association



Concrete Drainage—Flume Across Salt River Power Canal

### Operation and Maintenance of Irrigation System

Very little water was run in the canals during December, due to the demand for irrigation water being very light.

There were two maintenance crews in the field and the following statement shows the average number of men and stock employed and the results accomplished:

Average number of men.....	26
Average number of stock.....	2
Files main canal cleaned.....	7/8
Files brush cut along main canals.....	18
Files laterals cleaned.....	15%
No. of new structures installed.....	6
No. of old structures repaired.....	61
Aprap placed, ft.....	286
Art fill placed, cu. yds.....	344
Concrete placed, cu. yds.....	3
4" concrete pipe placed, ft.....	52
4" concrete pipe placed, ft.....	56
4" corrugated pipe placed, ft.....	25
Alt canal flumed, lin. ft.....	200

A daily average of 17 men and 6 1/2 head of stock were used during December widening Eastern canal, working on widening structures and backfilling same. 117 cubic yards of concrete was placed in siphon and 21 cubic yards in culvert. 200 cubic yards of backfill was placed on siphon.

The Monaghan 2-yard dragline moved 15,383 cubic yards of excavation, 2,000 cubic yards of spoil bank and 1,640 cubic yards of borrow.

The P. & H. 1/2-yard dragline moved 1,385 lin. ft. on the Arizonal canal in four working days.

The Ruth dredger bermed 2,420 lin. ft. on Canal 12 South, in three working days.

The Austin trencher completed trench excavation for cross cut drain construction on December 8th, having dug 1,400 lin. ft. After being over-

hauled it was moved to the Laveen drain construction where 3,350 lin. ft. was dug. In connection with this work 1,400 lin. ft. of 18" concrete pipe was laid and 1,000 lin. ft. backfilled.

Work was continued on the new pump houses for sub-drainage, five being completed during the month.

### Operation of Power System

The total power generated during December was 3,908,430 k. w. h.

The Roosevelt power plant operated 512 hours or 69% of the month, this plant being shut down from November 22nd until 12:15 p. m., December 10th. The maintenance work started in November continued during the shut-down period. The repairs to the draft tube and discharge tunnel of Unit No. 3 was completed. New valves were installed on the thrust bearing pumps.

The Cross Cut plant operated continuously, the Arizona Falls plant 12 1/2 hours, the South Consolidated plant 740.9 hours, or 99%, and the Chandler plant 624.8 hours, or 84% of the month.

The sub-stations all operated without trouble. At the Phoenix sub-station the 45,000 volt current transformers were overhauled.

The pumps were operated as required. The pump at Battery No. 4 was overhauled.

### Construction Work

Town of Mesa, Old Plant—The installation of this equipment was completed during the first part of the month and the unit placed in operation December 10th.

Roosevelt Dam, South Spillway—All excavations were completed early in the month and all the submerged con-

crete work was completed by December 10th. There was approximately 538 cubic yards of such concrete. Water was turned in the river on December 10th. The backfilling was completed December 28th, of which there was approximately 2,419 cubic yards of dry rock fill and about 350 cubic yards of dry masonry.

A total of 108,756.95 acres were entitled to irrigation water service on the first of January.  
C. C. CRAGIN,  
Gen. Supt. & Chief Eng.

### THE IRISH POTATO

The best potato consists of 19% starch and 75% water, hence as an article of food its value is in starch, with some potash and other salts, but is lacking in nitrogen, hence when used as the principal diet should be used with milk or some other food strong in nitrogen. It is of South American origin and was developed by selection and cultivation in North Carolina and Virginia, and Sir Walter Raleigh is credited with having first introduced the potato in Ireland, where in time it became the principal article of food, so much so that it became known as the Irish potato.

Different soils, methods of cultivation and climatic conditions have produced many different varieties, sizes and shapes, until the "Burbank" has become the standard in size and shape, while the Arizona Flagstaff has become the standard in quality, although the potato growers of Minnesota and neighboring states produce a high grade potato in unlimited quantities.

Try a piece of alfalfa; but be sure to put it on a well drained piece of land. It will not thrive where water will stand on the surface 48 hours at a time—it will smother out.

# RESTORING THE DAIRY INDUSTRY

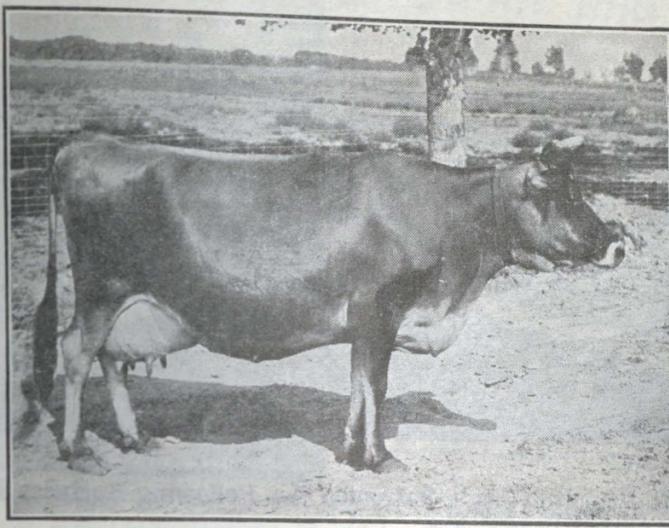
By W. W. P. McCONNELL

## FUTURE OF DAIRYING IN THE SOUTHWEST

We are again and again asked about the future of the dairy industry in the southwest. It is not our purpose or desire to write boom letters, as all countries have their advantages and disadvantages. Again, people are so peculiarly constructed that what would please one would not find favor with another. Therefore we can only make statements as they seem to us. Yet we are told that figures will not lie. If this is true, we will leave with the readers our facts and ask them to carefully analyze and decide for themselves. Personally, we believe that the opportunities are unexcelled and that especially the great Salt River valley will continue to make most phenomenal strides in the development of this industry, and conditions that we find in the Salt River Valley apply with equal force to all properly irrigated districts in the Southwest. Too much cannot be said about this important industry. As it is in all its phases conceded to be one of the leading industries of the country. Dairying however, like citrus and deciduous fruits, requires conditions that are favorable that are adapted to the industries. Dairying in the Middle States has been, and will continue to be a success. Their dairymen are numbered among the most successful farmers. It is not our purpose to say one word reflecting upon those splendid states that we class as the Middle States, but to speak of things as they exist. It must be admitted that the economical production of milk is the basis upon which successful and most profitable dairying must stand or fall.

While the present output of this gigantic industry brings to the American farmer a prodigious sum, there is not a shadow of a doubt but that when dairying takes possession of the great southwestern portion of our domain, which is practically unoccupied by the cow, there will be surprises in store for the dairymen of the country. When we consider the attending advantages that exist in this magnificent climate, the fact that in our irrigated districts the cows feed the year round on alfalfa pasture, and run in the open the year round.

Nature provides not only succulent food, but a balanced ration, and enormous results are gotten where only alfalfa hay and pasture are fed. The dairyman will readily see that the saving of all the grains, bran, oil meal and the expense of a barn, is an enormous saving, and means economical production. The yield from the same kind of a cow is, conservatively speaking, twice and three times as much as when diverse conditions obtain. When herds of ordinary cows, not including by-products, average without any concentrated food or stabling, \$80 to \$112 each at the creamery, it will readily be seen that the industry is immensely profitable. Keep in mind all the time that it's the net profit that tells the story, over and above the cow's keep. At a conservative estimate with the improvement that should be made in the Southwestern herds, by the use of pure bred sires, from milking families of the breed you like, greater improvements can and will be made.



Rochelle Princess

the industry is immensely profitable. Keep in mind all the time that it's the net profit that tells the story, over and above the cow's keep. At a conservative estimate with the improvement that should be made in the Southwestern herds, by the use of pure bred sires, from milking families of the breed you like, greater improvements can and will be made.

### WHERE GOOD FELLOWSHIP RULES

"A section of absolute good fellowship" is the way John B. Irwin of Minneapolis characterized the Inland Empire while on a visit to Spokane to judge dairy breeds at the Western Royal Live Stock show. "Good fellowship is akin to and will accomplish the same results as co-operation," he continued, "and I know of no better illustration of what it achieves than right here in this Inland Empire." Mr. Irwin is one of the leading breeders of Holstein-Friesian cattle in America, and he comes from a state—Minnesota—in which marvels have been accomplished along many lines through hearty co-operation, so his words of commendation of what he saw in Washington bear unusual weight. He did not visit either the Northwest Live Stock show or the Pacific International, so that his comment was limited to what he observed around Spokane. Had he done so he might well have substituted "Pacific Northwest" for "Inland Empire," for surely the three live stock shows of the season, taken collectively, could not be improved upon as an illustration of the valuable results to be obtained by pulling together.

A great deal has been said relative to the various farm industries. While all concede that the farmer is the source of the country's prosperity, yet he is confronted with serious question that pertain to the various crops and the kind that are the most economical to the producer. In all respects it would seem wise for the

A good sire and large producing cows will result in producing heifers that will excel as milkers and result in making the dairy industry far more profitable than heretofore. We most earnestly recommend our dairy farmers, from an unselfish standpoint, believing it to be to their interest as well as that of the country, to breed for the best possible results and build up their herds from heifers produced by large producing sires and dams. This can be done with every assurance of prosperity. It is conclusive that the dairy industry, properly handled, means more to the farmer than any other. There is no one thing that will bring such prompt returns, and possess the staying qualities and banish the fear of failures.

### THE COW

Of all the animal friends of man, she is the greatest. I wish that as you are about to sit down to your Sunday dinner I might remove from the table what she has placed thereon, says F. M. Woods. I would remove the cup of milk waiting at the baby's chair. I'd take the cream, the cheese, the butter, the custard pie, the cream biscuits, the roast of beef and leave you a meal of potatoes, beets, pickles and toothpicks.

Every scrap of her, from nose to tail, is used by man. We use her horns to comb our hair, her skin to clothe our feet, her hair keeps the plaster on our walls, her hoofs make glue and her tail makes soap. Her blood is used to make our sugar white, her bones are ground to fertilize our soil.

She has gone with man from Plymouth to the setting sun. It was her sons who turned the sod in the settlers' clearing. It was her sons that drew the prairie schooner for the sturdy pioneer, while she followed and when the day's march was done she came up and gave the milk to fill the mother's breast to feed the sucking babe that was, perchance, to become the ruler of his country.

Let us not fail to lift our hats to the dairy cow.

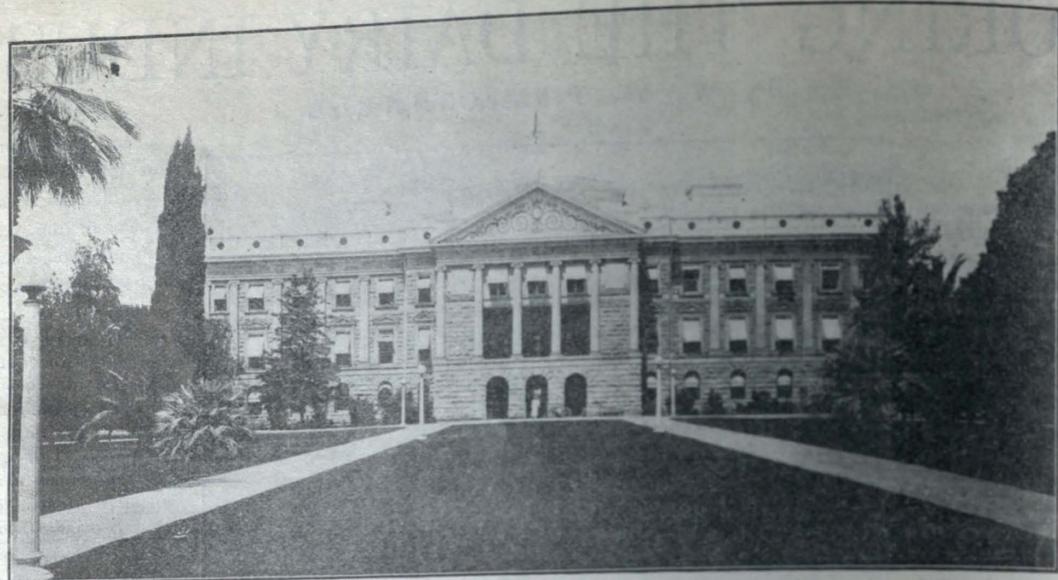
### DAIRYING A SAFE BUSINESS

The University of Nebraska dairy department predicts that men in the dairy business will be in better shape to withstand the crisis when an era of lower prices comes than those engaged in other lines of farming. At least this has been true in the past. The dairy cow is a machine to convert grains and roughage into a highly valuable concentrate. Farmers are rapidly beginning to realize the importance of dairying in improving the productivity of the soil, in increasing the food supply for an ever-growing population, and in yielding returns, if properly conducted, second to no other branch of agriculture.

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Bird's Eye View Of Phoenix

## THERE IS A DARKEY IN THE WOODPILE THE LABOR PROBLEM

The difference in the price the producer receives for his meat products and that paid by the consumer is out of all proportion. Will some one arise and explain? We realize that the so-called middleman is entitled to a reasonable profit, and that he is a necessary factor in the handling of food products, but in the name of the producers of the Southwest, we register our most emphatic disapproval of the present conditions that obtain.

We believe that the farmer whose courage, brawn and muscle have developed one of the greatest and most fertile districts on earth should not be compelled to submit to the arbitrary decree of a half dozen multimillionaires, who are thus enabled to exploit the country in their automobiles and sit in their cushioned chairs, with their feet elevated on their mahogany desks, and arbitrarily fix the prices of live stock, leaving barely an existence for the producer. These same individuals, who enjoy the fat of the land and live in luxury, with one bold stroke of the pen reduces the price of meat products to the danger line for the producer, and with another twist of the pen advances the price the consumer must pay to a point that threatens his loved ones with hunger. The Mills of the Gods grind slowly, but surely, the American people are long suffering, patient people; yet there is such a thing as demanding the last pound of flesh. Would that the common enemy of the best interest of the country could see and comprehend the meaning of the hand that is beginning to be visible through the wall and recant before it is too late.

The difficulty that confronts practically every farmer, especially during the busy season, is with the man who employs the help. He fails to recognize the difference between a good and an ordinary man. The poor one claims and, as a rule, gets as good pay as the man who is first class, consequently all incentive to work and become interested in his employers affairs is removed. The solution of the problem is to pay the good man good wages, interest him in your work, treat him well, advise with him, and if he is worthy a place on your farm he will show appreciation. Our experience leads us to believe that as a rule married men are better and more liable to be contented. If the farmer is situated so he can furnish him a comfortable cottage to live in, a good garden spot where he can produce his vegetables, raise his own poultry, keep a pig or two, and is permitted to keep a cow in the pasture (not necessarily a part of his wages) if he is not touched by such treatment, it is evident that he is not made of the right kind of metal and the quicker he is allowed to go the better. A poor, unreliable man is dear at any price, while a good, reliable, painstaking, thoughtful person, one interested in all that pertains to the farming operations, is cheap at a large price. As one passes the meridian of life he appreciates having a trusted man upon whom to lean. This would be far more satisfactory than renting the farm, moving to town and spending the balance of his days whittling goods boxes at the corner store.

No man can hide behind his wife's skirts now.

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Because it is cradled, threshed and becomes the flower of the family.

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The sport during the hunting season is unexcelled, there being an abundance of good shooting, quail and other game predominating in the country tributary.

Rarely does one find such a combination of attractions and amusements available, such as golf, tennis, swimming, mountain climbing, picknicking, horseback riding, etc. It is a rare and superb spot, where Nature's smiles are unsurpassed. Write Castle Hot Springs Company, Hot Springs, Arizona, for booklet and other particulars pertaining to this most wonderful resort.

The price of wheat, of corn, of cotton, of hogs and of beef cattle may be advanced one day, but the reliable old dairy cow goes right on doing business at the old stand, giving milk loaded with cream, paying bills promptly each month.

All through the great Southwest there is an unprecedented demand for well-bred dairy cows. It don't take much of a prophet to predict what this will mean on the farm incomes of the future. Old Bossy generously responds to six to eight cuttings of alfalfa in the Salt River Valley.

The following report for the state of Arizona was released through the Office of Agricultural Statistician, United States Department of Agriculture, Bureau of Crop Estimates, co-operating with the University of Arizona Extension Service, at Phoenix, Arizona, on January 3, 1921:

**Arizona Hay Report for 1920**  
Revised estimates of the acreage, average yield, production and farm value, December 1, of alfalfa and other tame hay in Arizona in 1920, as reported by the U. S. Bureau of Crop Estimates in co-operation with the University of Arizona Extension Service, are as follows:

County.	Area		Production.	Farm value.
	harvested.	yield.		
	Acres.	Tons.	Tons.	Dollars.
Apache	5,000	1.76	8,800	\$ 264,000
Cochise	6,000	1.98	11,900	297,500
Coconino	4,100	1.34	5,500	181,500
Gila	1,900	2.11	4,000	120,000
Graham	12,800	3.96	49,500	990,000
Greenlee	2,100	3.53	7,400	148,000
Maricopa	50,500	3.70	186,800	4,670,000
Mohave	1,100	2.00	2,200	66,000
Navajo	4,000	1.90	7,600	212,800
Pima	7,000	2.46	17,250	517,500
Pinal	10,300	2.52	26,000	650,000
Santa Cruz	2,000	1.60	3,200	96,000
Yavapai	6,200	2.15	13,350	400,500
Yuma	10,000	3.75	37,500	750,000
The State	123,000	3.10	381,000	\$9,363,800

**Arizona Grain Sorghum Report for 1920**  
Revised estimates of the acreage, average yield, production and farm value, December 1, of grain sorghums in Arizona in 1920 are as follows:

County.	Area		Production.	Farm value.
	harvested.	yield.		
	Acres.	Bu.	Bu.	Dollars.
Apache	200	18	3,600	\$ 4,320
Cochise	8,300	10	83,000	99,600
Coconino	100	20	2,000	2,400
Gila	300	20	6,000	7,200
Graham	1,000	30	30,000	36,000
Greenlee	200	40	8,000	9,600
Maricopa	12,000	32.7	392,400	470,880
Mohave	200	30	6,000	7,200
Navajo	200	15	3,000	3,600
Pima	2,000	32	64,000	76,800
Pinal	2,500	30	75,000	90,000
Santa Cruz	3,000	20	60,000	72,000
Yavapai	1,000	17	17,000	20,400
Yuma	4,000	40	160,000	192,000
The State	35,000	26	910,000	\$1,092,000

**Arizona Cotton Report for 1920**  
Revised estimates of the acreage, average yield, production and farm value, December 1, of Pima American-Egyptian cotton in Arizona in 1920, are as follows:

County.	Area picked.		Production.	Farm value.
	Acres.	Lbs. lint.		
	Acres.	Lbs. lint.	Pounds.	Dollars.
Maricopa	180,000	218	39,240,000	\$14,577,000

Pima	4,000	120	480,000	178,000
Pinal	9,000	149	1,341,000	498,000
Yuma	7,000	220	1,540,000	572,000
The State	200,000	213	42,601,000	\$15,825,000

### Arizona Wheat Report for 1920

Revised estimates of the acreage, average yield, production and farm value of wheat in Arizona in 1920, are as follows:

County.	Area		Production.	Farm value.
	harvested.	yield.		
	Acres.	Bu.	Bu.	Dollars.
Apache	1,300	18.8	24,400	\$ 53,600
Cochise	800	21.5	17,200	41,200
Coconino	4,500	11	49,500	108,500
Gila	300	16	4,800	11,040
Graham	8,500	29	246,500	554,625
Greenlee	500	30	15,000	33,000
Maricopa	11,300	29	327,700	737,225
Mohave	100	24	2,400	5,280
Navajo	900	17	15,300	33,660
Pima	2,000	30	60,000	138,000
Pinal	10,000	20	200,000	450,000
Santa Cruz	500	30	15,000	34,500
Yavapai	700	26	18,200	41,650
Yuma	600	20	12,000	28,800
The State	42,000	24	1,008,000	\$2,271,850

### Arizona Corn Report for 1920

Revised estimates of the acreage, average yield, production and farm value of corn in Arizona in 1920, are as follows:

County.	Area		Production.	Farm value.
	harvested.	yield.		
	Acres.	Bu.	Bu.	Dollars.
Apache	1,500	20	30,000	\$ 60,000
Cochise	5,000	20	100,000	190,000
Coconino	1,500	15	22,500	45,000
Gila	2,500	17	42,500	95,625
Graham	3,000	22	66,000	112,000
Greenlee	1,600	31	49,600	89,280
Maricopa	3,000	38	114,000	216,600
Mohave	600	57	34,200	68,400
Navajo	5,500	17	93,500	187,000
Pima	4,000	24	96,000	172,800
Pinal	1,600	25	40,000	90,000
Santa Cruz	2,000	21	42,000	71,400
Yavapai	5,000	25	125,000	250,000
Yuma	200	28.5	5,700	11,400
The State	37,000	23	851,000	\$1,059,700

L. M. HARRISON,  
Agricultural Statistician.

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# Pathfinder

**NATION OF ROAD BUILDERS**  
LOUISE V. M. HOPKINS,  
(In the Midland)

A cursory glance at the road lore of the past brings out the fact that, as a nation, the United States of America is very young indeed. Far almost before the dawn of history, Carthage, the great trading nation of the ancient world, was building splendid roads for commercial and military purposes throughout her domain. And history makes mention of three great highways as having extended out from ancient Babylon. Unfortunately the records fall to tell in what directions these roads extended, but fancy instantly pictures one of them as leading eastward toward the older civilizations of Persia and India, another westward toward the turbulent cities of Jerusalem and northern Egypt, and perhaps a third great highway led northward along the Euphrates toward Asia Minor and the Greek settlements on the shores of the Mediterranean. Doubtless the great Babylonian monarch, Nebuchadnezzar, in intervals between attacks of insanity and the building of wonderful hanging gardens, drove his war chariots and led his victorious armies over these royal roads on the business of his empire. But the greatest road builders of ancient times were the Romans. Three hundred and twelve years before the birth of Christ, Appius Claudius, a Roman senator, began the construction of a military road from Rome to a point not far from the present town of Capua. Later this road was extended to Brundisium. The bones of Appius Claudius have been dust for more than 2000 years, but the road which bears his name and which he built, the historic Appian Way, is still in existence. The Appian Way is the earliest permanent piece of road construction of which we have any authentic record. Some of the stones which were laid in place by unknown workmen more than 2,000 years ago may still be seen in the bed of this Roman road. Think of the great ones of the earth whose feet have almost certainly trod the worn surface of these stones: the apostles, Peter and Paul, Julius Caesar, Pompey, Michael Angelo, Dante, Charlemagne, Napoleon. The civilized world was at one time controlled by a network of Roman roads, built with the sole purpose of moving troops and military equipment swiftly from one point of the empire to another. The nations which have ruled the earth have been many generations it was truthfully said "all roads lead to Rome," and when the present road plans are completed the same can be said of the Salt River Valley.

They say it takes all kinds of people to make a world, but for our part we could get along very well minus the "gloom dispenser."

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PHOENIX ARIZONA

# What an Automobile Club Means to a State

PATH-CHARTING THROUGH THE GREAT SOUTHWEST

By STANDISH L. MITCHELL,  
Secretary of the Automobile Club of Southern California

By STANDISH L. MITCHELL,  
Secretary Automobile Club of Southern California

Each year the trend of Eastern, Mid-Western, Northern and Southern travel increases toward the Western and Southwestern states, and especially along the routes of the great transcontinental automobile routes from coast to coast. Connection between the Atlantic and Pacific sections of the country, and embracing both the Northern and Southern states and the Mississippi valley, has already been permanently established by way of the Lincoln highway and the National Old Trails route. But there is another and a most intensely interesting chapter in the history of cross-continent thoroughfares which is being gradually developed, and in this the state of Arizona is destined to play an important part.

This chapter is the final completion and sign posting of the Bankhead highway, and of the Old Spanish Trails route, both of which will bring in and through the state many thousands of visitors, sight-seers, investors, sportsmen and residents in the years to come. Few persons, excepting those who are keeping watch of the march of events, realize how rapidly and surely these two colossal projects are coming to the front. Arizona, herself, is quite aware of the magnitude of the force which is irresistibly linking up mile after mile of these two great coast-binding thoroughfares.

The states best provided with highways within their borders will be the states which will reap the most benefits from the completion of these transcontinental routes. The state of California has long ago recognized the truth of this, and its system of roadways, while still being extended and developed, is a very fine one. Concurrently with its activities in

all good road matters, the Automobile Club of Southern California has co-operated with the organizations back of both of these nationally needed roads, and has just completed what might be termed the "first leg" of the east and west journey made for the purpose of charting and mapping the road and trails through the Southwest, Middle West and Eastern seaboard. This journey was made so that travellers from all parts of the United States might be provided with the needed information to guide them in crossing the country from either direction.

Two of the club's most experienced men were selected for this work, and their trip occupied approximately five months, and covered about 15,000 miles. All through Arizona, New Mexico and Texas the roads were charted, and the "second leg" of the trip will be completed when the maps are prepared in the offices of the Automobile Club's drafting department, and the final "leg" finished when the maps are printed in the printing department and assorted for distribution in the touring bureau department of the club. The work entailed by this completion of the charting and mapping of these highways will be enormous in its entirety. The benefit which it will extend to visitors travelling to and through the Southwestern states will be very great.

The recent election in Maricopa county, Arizona, adding a second sum of four million five hundred thousand dollars voted by the county should result ultimately in giving this county a magnificent system of highways. The charting and mapping of the Southern and Southwestern routes by the Automobile Club of Southern California will co-operate with this system, and give travellers to Arizona an opportunity for still better seeing of the state's wonderful scenery and manifold opportunities for investment. And it will, in turn, give

the citizens of Arizona additional advantages in the way of coming to California, and getting acquainted with the Pacific slope.

The maps of the routes and of various side routes leading to the main highways will be ready some time during the present year, it being the intention of the club to hasten the printing of these maps as far as is consistent with absolute accuracy. The charting and mapping of the Southwest will open up a marvelous scenic region, rich in historic memories, linked with names famous in American history, and pregnant with some of the grandest achievements in material progress ever recorded in the United States.

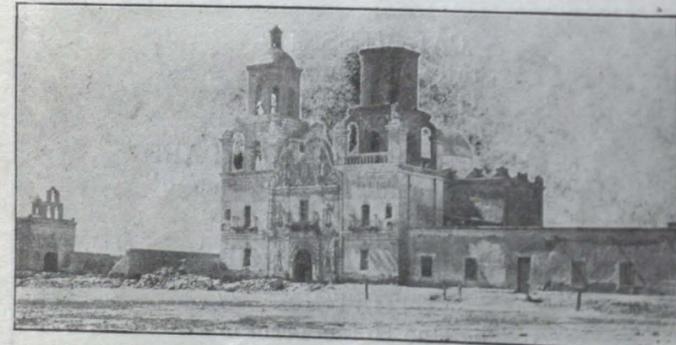
A man should never be ashamed to own that he has been in the wrong; it is but saying in other words that he is wiser today than he was yesterday.—William Penn.

A Chicago woman left \$8000 to provide a home and luxuries for her pet poodle dog. While we feel kindly disposed toward pet dogs, we can but feel that had she sadly remembered, the thousands of children dying in Europe for the necessity of food, she would have rendered greater service to humanity by giving it to them.

### THE WIFELY ARTS

Harold, the only son of a wealthy widowed mother, was drafted, and duly arrived at the camp where he was to receive instruction in the manly art of warfare. Imagine his surprise and chagrin when he was detailed to what is known as K. P. duty ("kitchen police" duty). In this he became quite proficient, however, as one of his letters shows:

"Dear Mother—I put in this entire Christmas day washing dishes, sweeping floors, making beds and peeling potatoes. When I get home from the camp I'll make some girl a mighty fine wife!"



### MISSION GARAGE

FRANK MAXWELL, Manager

Storage Batteries, Battery Repairing and Charging  
Ignition, Starting and Carburetor Repairs.

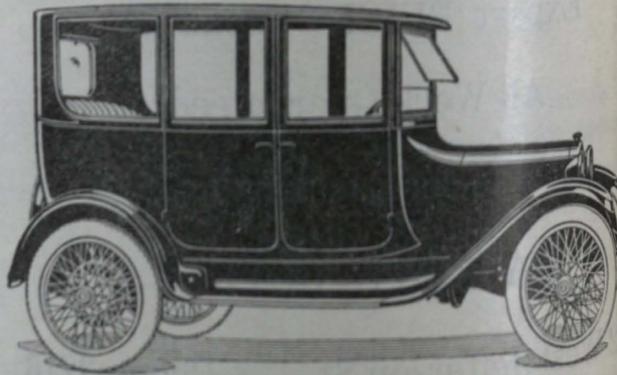
"WE ARE AUTOMOBILE MECHANICS."

All Work Guaranteed.

412-416 North First Street

Phone 1785

Phoenix, Arizona



## DODGE BROTHERS CLOSED CAR

ONE THING THAT BECOMES MORE CLEAR  
EACH YEAR IS—THAT PEOPLE WHO BUY

DODGE BROTHERS MOTOR VEHICLES  
DO SO FOR SOUND BUSINESS REASONS

MARTHUR BROTHERS

PHOENIX

TUCSON — NOGALES — YUMA — DOUGLAS

## "JUST WRIGHT" Shoes for Men

Union Made

NELSON SHOE CO.

42 West Washington St.

Phoenix, Arizona

CIGARS

COLD DRINKS



BULL'S EYE

26 South First Street

E. H. SARGENT

Best Equipped Shooting Gallery  
In Phoenix

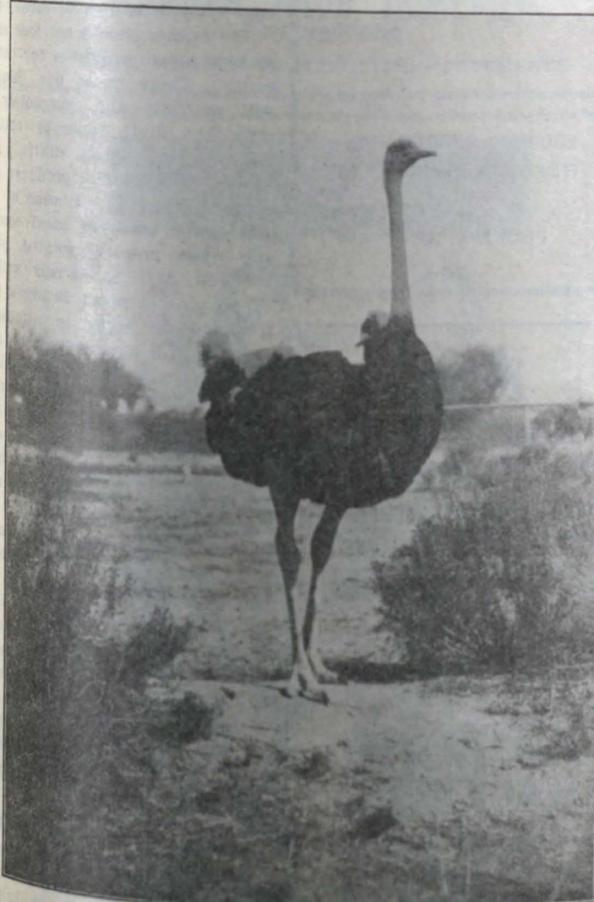
Moving Gallery

Phoenix, Arizona

### ANYBODY CAN FARM

Only the other day the editor of this paper was called in from the barn to answer some very pointed questions relative to farming, and in this case to dairy farming. The message came over the telephone from a young man and he was just at the point of starting a dairy farm of 17 acres and with a partner was going to make milk with seven cows to supply a local restaurant that the partner was conducting. The inquiry came from a young man who was holding a clerkship in a large office and was drawing \$125 a month, yet

he had read of the great profits farmers were making and could see that with seven cows and 17 acres of land, the new firm could make a lot of money. Well, they had not figured on doing any work themselves, and would hire a man to do the coarse hand writing. This shows very plainly just how much city people appreciate what farmers have to do. Just imagine how long a farm of this kind would run. Supposing every cent taken from the seven cows was clear profit they would not have enough to pay their man for doing the work. They had not stopped to figure cost, investment or



A Feathered King—An Arizona "Bird"

anything else. They did not know the difference between corn and bran as a cow feed, and neither had ever lived a day on a farm. It looked easy to them. Anybody could farm. Hundreds of city folks all over the country have an idea that anybody can make hens lay and cows give milk, but when it comes to the test they will find that Ben Franklin was right when he said, "He who by the plow would thrive, must either hold or drive."

It is probable that a large milk condensing plant will be built at Northfield, Minn., this summer. Parties looking into the milk supply at this point have reported that it is the largest in this section of the country. It is a well known fact that

evaporated and condensed milk is being used more extensively daily and the condensing business is sure to occupy an important place in the very near future.

### DUCKS HAVE MERIT

The Pekin, the Indian Runner and the Rouen are the most common breeds of ducks. The Pekins are white and lay a large white egg. The Rouens are a great deal like our wild Mallard ducks. Their eggs are of a greenish color. These birds are a sitting breed. The Indian Runners are fawn and white, and not as large as the other breeds. They grow rapidly, are good foragers and splendid layers.

### Arizona Magazine Hotel List



Copper Queen Hotel

"The Gem of the  
Borderland"

Bisbee Arizona

Our Cafe is unexcelled  
throughout the Southwest  
Charges Moderate

Ed. Olson, Mgr.

### University of Arizona

Founded in 1885

Located at Tucson

Ideal Winter Climate

Offers Special Advantages in  
Mining and Engineering Courses  
48 Instructors 14 Buildings  
For Particulars write

R. B. von KleinSmid

President

Tucson

Arizona

### GATES HOTEL

Centrally located. Easily accessible to all parts of the city. Cars to beaches, and other points, close at hand.

RATES FROM \$1.50 PER DAY  
Dining room under hotel management.  
Lee Holladay, Pres. George A. Collins, Sec.

AT FIGUEROA AND SIXTH  
LOS ANGELES

A woman never really gets old, but occasionally one of them will admit that she's "prematurely gray."

### Hotel Gadsden

Douglas  
Arizona



### WEST LAKE MILITARY ACADEMY

Formerly at Santa Monica, now at Mount Washington, Los Angeles, Cal. An ideal school for Boys, in an ideal location. All men teachers. U. S. Army Officers. 20 acre Campus. Col. Wm. Strover

7th AVE AND WOOD COAL YARD 507-SOUTH-7th AVE



Judge W. B. Fonda's Breeding Pen, Safford, Arizona

It is more difficult to lay an egg without a shell than where the shell is present. It sometimes happens that these soft eggs are retained too long in the oviduct, and decomposition of the egg follows, causing inflammation of the oviduct, and, if the cause is not removed, blood poisoning. In this instance decomposition has reached such an advanced stage that there is little chance of absorption, and unless the incomplete egg can be expelled, or removed, it not only causes disease, but it blocks the passage of other eggs, and the result is fatal to the hen.

This shortage of nourishment, no matter which of the aforementioned forms it takes, results in decrease or complete cessation of the egg yield.

There are many mixed feeds upon the market, but it is best to buy and mix for yourself. In so doing there is surety that the ingredients are mouldy grain is a menace to the flock, as it breeds disease. The substitutions used instead of grain in the ready mixed feeds, may not in themselves be injurious, but they are lacking in nutrition, often neither edible nor digestible. This material is used as filler, to make up the bulk of the weight. In many low grade mixed feeds there is not sufficient nourishment to warrant the purchase. In mixed feeds of better quality, though there be an absence of adulteration or mould, the grains are not properly balanced to produce the best results.

In the successful raising of poultry for egg production, it is necessary that great care be taken in feeding from the time the chicks first arrive until the days of their usefulness as layers have passed. As the twig is bent the tree inclines, and it is impossible to expect a chick to be better than its forbears, or a hen to give the best results if it has been neglected as a chick and pullet.

If the stock is of good breed, but little known of its early care, give the flock the best attention and environment possible, and the egg yield will much increase, but the best results will come from the next generation of chicks.

Where chickens have been unduly

forced, or bred too early, their vitality is lessened, and in consequence of which their life as an egg producer is shortened. Especially is this true where false stimulants have been given to increase the egg yield. It takes time to improve stock and build up a good strain, but it is worth while.

Any flock can be improved by proper feeding, no matter whether it be mongrel or pure-bred, but the best results come from feeding a balanced ration from the time the chick is first hatched.

If a large egg yield is desired it is necessary to feed a balanced ration—to know the grains and the proper proportions used, and the influence of each ingredient on the egg production.

The advantages of a balanced ration over other mixed feeds is that it contains the necessary ingredients in the correct proportions to produce a heavy egg yield without undermining the health of the hen by burning out the reproductive organs.

The separate ingredients in the balanced ration, and why they are used, the correct proportion in pounds of each ingredient, and the number of yolks and whites these proportions will produce, and the balanced result are given in the table and explanation.

The result of this balanced ration for increased egg yield is that no eggs in the hen are wasted, either by absorption, malformation or incompleteness.

This balanced ration has been carefully worked out and tested for its efficiency with excellent results, on one of the best model ranches in the country.

**What Really Annoyed**

Caller—Hear that girl! Doesn't her constant singing in the flat annoy you?

Lodger—Not so much as the constant flat in her singing.—Boston Transcript.

**PURE-BRED BELGIAN RABBITS FOR SALE**

At  
710 NORTH SECOND ST.  
Rabbits and Price Right

# A Money Maker

—Without question, one of the best bargains in the Southwest. Lot ideally located, 50-foot front, 200 feet deep, contains three houses, eight furnished apartments—all rented to reliable tenants, income more than 20 per cent on the investment. Owing to unexpected business problems this valuable property must be sold immediately at a great sacrifice. Good terms will be given. Call at Webb's Realty Company and see this property and learn all the particulars. Price, \$5,000.00.

## Webb Realty Co.

33 West Monroe St. Phoenix, Arizona

**IF YOU BELIEVE IN THE ECONOMY OF THE EXPENDITURES OF PUBLIC MONIES BECOME A MEMBER OF THE TAXPAYERS' ASSOCIATION.**

ADDRESS SECRETARY  
31 WEST WASHINGTON ST.  
PHOENIX, ARIZ.

### NOW

is the time to renew that subscription for 1921.

The only magazine in Arizona devoted exclusively to exploiting the state's resources. Lands to literature.

\$2.00 Per Year

## ARIZONA MAGAZINE

Phoenix, Ariz.

At what time in the day was Adam born? A little before Eve.

### ALFALFA IS KING—COTTON IS CLOSE COMPANION

While Arizona is noted for an limited number and variety of cotton and alfalfa surpass all other crops. They are not only the leading crops but in many ways are the most profitable and have the greatest earning capacity. They are peculiarly adapted to work in harmony. The fertility of the soil must be conceded to the farmer's greatest asset. While the long staple cotton is one of the leading crops, it must be acknowledged that it is a great money-maker.

The farmer should not lose sight of making ample provision for the emergency. There is no one thing that will so fully and completely come the draft made by cotton on the soil that equals alfalfa. Alfalfa is a most wonderful producer of fertility, hence the rotation of alfalfa and cotton produces ideal conditions and when properly rotated, profits the soil. If the farmer with 40 acres, will plant 20 acres to cotton and 20 acres to alfalfa each year, he will have solved the long standing question. The cotton will normally return the farmer a good income, while the alfalfa fed to a dairy cow invariably produces wonderful results. The advantages the dairy cow are many—she returns her earnings in cash promptly at the end of each month, she doesn't require you to wait until the end of the year and take chances on the price of product. She provides, in addition to her condensed milk, butter, cheese, valuable food for the calves and chickens, as well as a good or beef at two years old. In addition to this, she is most thoughtful in the price of your land by constantly increasing its earning capacity.

Perhaps the most important question in the world is: "What are you doing to be saved." And next question: "What are you doing to help town?"

### ARIZONA GOOD ROADS ASSO.

**Notice of Annual Meeting**  
The next annual meeting of the Arizona Good Roads Association will be held Friday, February 11, 1921, at the Chamber of Commerce rooms, Phoenix, Arizona. The meeting will be called to order at 10 a. m.

Delegates are appointed on the following basis:

Class 1—Cities and counties, entitled to 5 delegates each.

Class 2—Organizations, entitled to 2 delegates.

Class 3—Individuals, entitled to vote in person, no proxies.

See that you and your organization, city and county, are on the membership roll and fully represented.

#### Business of the Meeting

Report of President.  
Report of Secretary.

Report of Committee on Highway Commission Bill.

Addresses on Road Subjects.

Appointment of Committees on Membership and Credentials and Committee on Resolutions.

Election of Board of Directors (one from each county).

Directors elect the following officers: President, Vice-President, Secretary-Treasurer.

The Directors for 1920 are as follows:

Apache County—Gustav Becker, Springerville.  
Cochise County—B. A. Packard, Douglas.

Coconino County—C. T. Woolfolk, Flagstaff.

Gila County—L. D. Van Dyke, Miami.

Graham County—Frank A. Webster, Safford.

Greenlee County—Norman Carmichael, Clifton.

Maricopa County—Dwight B. Heard, Phoenix.

Mohave County—A. M. MacDuffie, Kingman.

Navajo County—J. A. Morrow, Holbrook.

Pima County—F. Ronstadt, Tucson.

Pinal County—W. Y. Price, Florence.

Santa Cruz County—Jas. A. Harrison, Nogales.

Yavapai County—T. G. Norris, Prescott.

Yuma County—G. A. Marsh, Parker.

pelase get in touch with your County Director and help him secure a record membership and attendance from your part of the State. Blanks and roster of membership follow:

#### Membership Roster 1920 Memberships

County	Individuals	Cities and Organizations	Total	Membership Fees Paid
Apache	13	1	14	\$ 51.00
Coconino	4	2	6	58.00
Cochise	14	1	15	28.00
Gila	2	1	3	4.00
Graham	3	1	4	31.00
Greenlee	3	2	5	56.00
Maricopa	62	2	64	204.00

E. P. CONWAY,  
District Manager

Home Builders' Building,  
Phoenix, Arizona

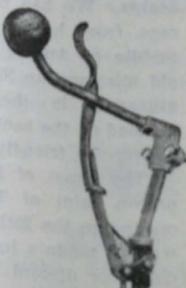
### WARREN BROS. COMPANY CONTRACTORS

ROADS WARRENITE-BITHULITHIC PAVEMENTS

### HUGHES LEVER EXTENSION FOR emergency brake gear-shift



If you could put Packard convenience into your Ford you'd want to, wouldn't you? My extension makes the Ford lever easy to reach and gives it a ball grip—takes away one big Ford inconvenience. Why not buy one today?



**HUGHES Ford Brake LEVER EXTENSION**  
All Ford touring except 1920, \$1.75.  
All Ford closed and 1920 touring, \$2.  
Also Hughes gear lever extension all cars Dodge, Nash, Overland (75-90-4), \$1.25.  
Cars with removable ball lever top, \$1.50.  
All others \$2.00.  
At Dealers or write

**M&H NOVELTY COMPANY**  
1478 W. 28th St. Los Angeles, Cal.

Mohave	8	1	9	41.00
Navajo	3	1	4	41.00
Pima	16	1	17	32.00
Pinal	11	1	12	22.00
Santa Cruz	6	2	8	62.00
Yavapai	3	1	4	16.00
Yuma	5	1	6	20.00
<b>Total</b>	<b>153</b>	<b>12</b>	<b>165</b>	<b>\$666.00</b>

### ARIZONA GOOD ROADS ASSOCIATION,

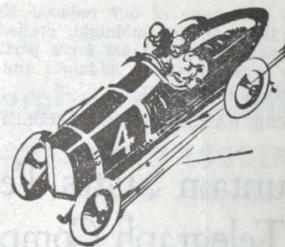
DWIGHT B. HEARD, President.  
HARRY WELCH, Secretary.  
Phoenix, Arizona, January, 18, 1921.

### IMPROVED CONDITIONS

There is no gain-saying the fact that a better day is dawning for the farmers all over the county. This is being ushered in through modern education along agricultural lines.

W. H. Bishop, attorney, with offices at No. 33 West Monroe street, has given many years to the investigation of land titles and passing upon abstracts for sales and mortgages and his office is prepared to take care of all kinds of conveyancing and notary public work.

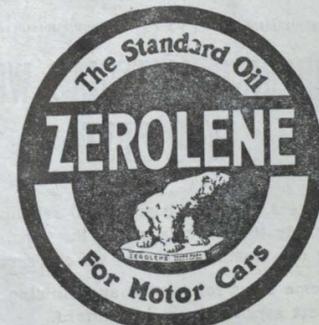
The "Major," as he is familiarly known, went to the Philippines with General Funston's Kansas regiment, and later transferred to General Bell's regiment, in which there were many Arizona soldiers. At the close of the Philippine insurrection he was one of Governor Taft's legal advisers in the reorganization of the civil government of the city of Manila, and continued in the civil service for two terms as prosecuting attorney, and then came to Phoenix with his family five years ago for the general practice of law.



## Actual tests

By exhaustive study and engine tests, our Board of Lubrication Engineers has determined the correct consistency of Zerolene for your make of automobile. Its recommendations are available for you in the Zerolene Correct Lubrication Charts. Get one for your car at your dealer's or our nearest station. Use Zerolene for the Correct Lubrication of your automobile, truck or tractor.

STANDARD OIL COMPANY  
(California)



A grade for each type of engine

## In Using Long Distance---

In placing a call to a distant point, thought should be taken of the convenience of the person called, and of others who wish to use the line.

It isn't kind to place a long-distance call and then leave your telephone before connection is made with the distant persons. For instance, you place a call for a busy man in Busyville. Then you leave your office. Meanwhile, the Busyville man is called, he answers, the operator rings your telephone and there is no response, or she is told you have stepped out. It is not only annoying to the person called, but others who are waiting have been delayed in securing the circuit.

If you MUST leave the telephone before the call has been completed, please notify "Long Distance" at what telephone you can be called. This will prevent inconvenience to the person called and will conserve the use of long-distance facilities.

Each subscriber is an essential factor in good telephone service, and we will greatly appreciate during this year, as in the past, your doing your part in the use of your telephone, and your friendly attitude towards our efforts to make the service the best possible.

### BY THE WAY

Are you taking advantage of our reduced Evening and Night Rates? Between 8:30 p. m. and midnight, station-to-station calls—that is, calls for numbers only and not for a particular person—are ONE-HALF the day rate. Between midnight and 4:30 a. m. such calls are ONE-FOURTH the day rate.

TRY THESE RATES ON YOUR TELEPHONE.

The Mountain States Telephone and Telegraph Company

Through its specialized departments this institution assures its customers a comprehensive and thoroughly efficient service.

## THE VALLEY BANK

Phoenix, Arizona

Capital \$500,000.00

Resources \$4,000,000.00

Member Federal Reserve System

## IF IT'S BUILDING MATERIAL WE'LL SERVE YOU BEST

It is our business, our sole business, to sell lumber and building materials. We study the markets in our line; we study every condition surrounding this business so that we can serve you best.

When you come to us for lumber and building materials you are assured of the best service these lines afford.

## THE O'MALLEY LUMBER COMPANY

Yards at  
Phoenix, Tucson, Glendale, Peoria, and Buckeye, Arizona

## THE FATHER OF ARIZONA

(Continued from page 3)

"The whole of Arizona did not produce enough to support the company; it was impossible to prospect among the Apaches, and under the circumstances we could do no more than locate some mines and return by way of Yuma to San Francisco."

The two years following Poston spent in Washington and the East, preaching the greatness of the nameless land, still "the Gadsden purchase" and part of New Mexico, to the president, war department, speculators—anybody who would listen or could be made to listen.

The Texas Pacific Railway Company, a gigantic romance of speculation long since forgotten, came to his aid with a hundred thousand dollars in cash and a capital of two millions for the new exploring and mining company, and in April, 1856, Poston and his party outfitted in princely fashion at San Antonio, Texas, for the thousand mile trip across the plains.

There was something of the romance of Coronado's marches in it; the gay and hopeful adventurers gathered about them such a company as was never again equalled; a great caravan of mule wagons loaded with supplies of all sorts, tools, machinery, food, wines, clothing, books, many of the luxuries of life and enough and to spare of the necessities.

San Antonio was then the greatest outfitting point in the West, and scouts, guides and "buckskin boys" of all sorts gathered there waiting for service with some westward party. At New Bramfels, where the Germans were attempting to colonize Texas, Poston enlisted the services of German miners of education and experience; Herman Ehrenburg, an engineer of international reputation and romantic career; Carlos Schuchard, a draughtsman and artist of considerable ability; two expert assayers, a Russian and a Hungarian, and other brilliant and scholarly foreigners whose fortunes wanted mending in any adventure that offered.

Col. Samuel Colt was one of the stockholders and the party was armed throughout with the finest products of the famous firearms company. The plains of Texas spread away before them, carpeted with fresh grass and flowers; game was everywhere; at the first military post, Fort Clark, they found General Magruder with two French cooks, a great pack of hounds, and a stable of thoroughbred horses, keeping open house royally.

The notes go on: "It was slow progress with a wagon train and we reached El Paso in time for the Fourth of July. The town was prospering; the Mexican trade was good and silver flowed in a stream. As the waters of the Rio Grande were rather sandy, we used champagne as a substitute and it took a month to recruit the animals for the plunge into Apacheland.

"Leaving El Paso, we made a halt on the green-fringed Mimbres, and I took five men and an interpreter and visited Santa Rita del Cobre, the old triangular-shaped Spanish fort where the Apaches were gathered to the

number of five hundred. They were friendly to us, but expressed deadly hatred for the Mexicans and showed many trophies of warfare, horses, mules, captives, silver-mounted saddles, and firearms which they used with deadly skill.

"They challenged my men to a trial of marksmanship and I must own that we were beaten. They fired at trees and afterward cut every bullet out and saved it. We made a treaty promising to let them alone if they would not trouble us, and told them they could fight it out with the Mexicans to suit themselves.

"I had had a lot of tinctures of myself taken in New York and these distributed among them and they promised not to kill me. Years after some of the same band told me they could often have killed me but remembered the treaty and let me go.

"We gave them some presents, and of these they valued matches most, for it is no fun to make fire by rubbing two sticks together.

"At the crossing of the San Simón just as we had unhooked for noon, about a hundred Apaches came thundering down on us. The chief, Alessandro, was on his way back from a pillaging expedition into Mexico. I had ropes stretched around the camp and told them I would shoot the first one who tried to cross over. They parleyed awhile and wanted to trade horses, mules, captives, mescal and the like for ammunition, arms, blankets and matches.

"We told them we were not traders and they must not come beyond the ropes. The boys were anxious to fight, but the whole future success depended on keeping peace with the Apaches. I laid my gun across the top of my ambulance and told the boys not to shoot till I did and then fire away. It was no time for military ceremony and every minute seemed a long time.

"One of my men, a stalwart Bohemian who had served in the Austrian army, was a little slow in coming forward and I cried out with some profanity: 'Anton, why don't you come out?' He replied coolly: 'Vah till I fill mine pipe,' and he stalked out smoking away, with a rifle in his hand and two six-shooters in his belt. The Apaches held a hurried consultation and the chief waved his hand to the north and they all rode away.

"I was glad to see them go, but I think the boys would rather have had their dinners than the fight. We were not hunting Apaches but silver mines and the company in the States expected rich specimens, not Apache scalps. We had no more trouble except from heavy rains, and by the middle of August the domes of the old mission San Xavier del Bac were glittering in the sunset and we camped on the bank of the Santa Cruz among the friendly Papagos.

"The Feast of San Augustine, the patron saint of Tucson, was to be opened on the 20th of August, and we had made a long trip without accident or discord, we turned the animals over to Papagos to graze and gave the boys two weeks' furlough to attend the festa, get acquainted with the señoritas, confess their sins, and dance their boot heels off."

## County and City Resources

### YUMA CO.

has the richest soil in America in the Valley of the Colorado—the American Nile. Year round growing season, unlimited water supply under government project. Largest area of best citrus land in America shortly to be placed on market. Rich mines in surrounding mountains. Main line transportation. Address inquires to Commercial Club, Yuma, Ariz.

### Maricopa Co.

through the center of which runs the famed Salt River Valley, with its fertile fields, amply supplied with stored water by Roosevelt dam. The greatest and most profitable cotton belt in America, though not the largest. Ideal conditions for citrus culture, alfalfa, dairying, general agriculture, horticulture and poultry. Write Commissioner of Immigration, Phoenix, Arizona.

### Coconino Co.

has more natural wonders of interest to the tourist than any like area in the world, and it's on the main line of the Santa Fe. Travelers get a layover at Flagstaff or Williams. This county also grows the finest potatoes in the West—an infant industry with unlimited market and fortunes for brain and brawn. All cereals of the temperate zone. Center of lumber industry. Address inquiries to F. O. Allen, Immigration Comr., Flagstaff.

## ARIZONA'S CHIEF WINTER RESORT

### The Tourist's Wonderland Coconino County



Our climate is the ideal winter climate—and those of us who have been here many years are continually discovering additional merits.

The Lair of the Grand Canyon of the Colorado—Ancient Cliff Dwellings—Sunset Mountain—Ice Caves—San Francisco Mountains—Oak Creek Trout Stream, excellent Trout Fishing.

## Unexcelled In Scenic Grandeur

We will be glad to send literature and descriptive matter telling why you should spend your vacation with us.

Write County Immigration Commissioner, Flagstaff, Arizona.



MRS. F. O. ALLEN  
County Immigration Commissioner  
FLAGSTAFF, ARIZONA



## Homeseekers, Dairymen, Gardeners, General Farmers and Poultrymen---

find in the Salt River Valley of Arizona ideal conditions. Three hundred days of sunshine. Rich soil and an abundance of water makes this country second to none.

Tell us what you are interested in. A small home, where the roses bloom all the year; a big farm with alfalfa growing 12 months of each year; a poultry farm with good market; a winter home where there is no snow.

Ask us questions. Address

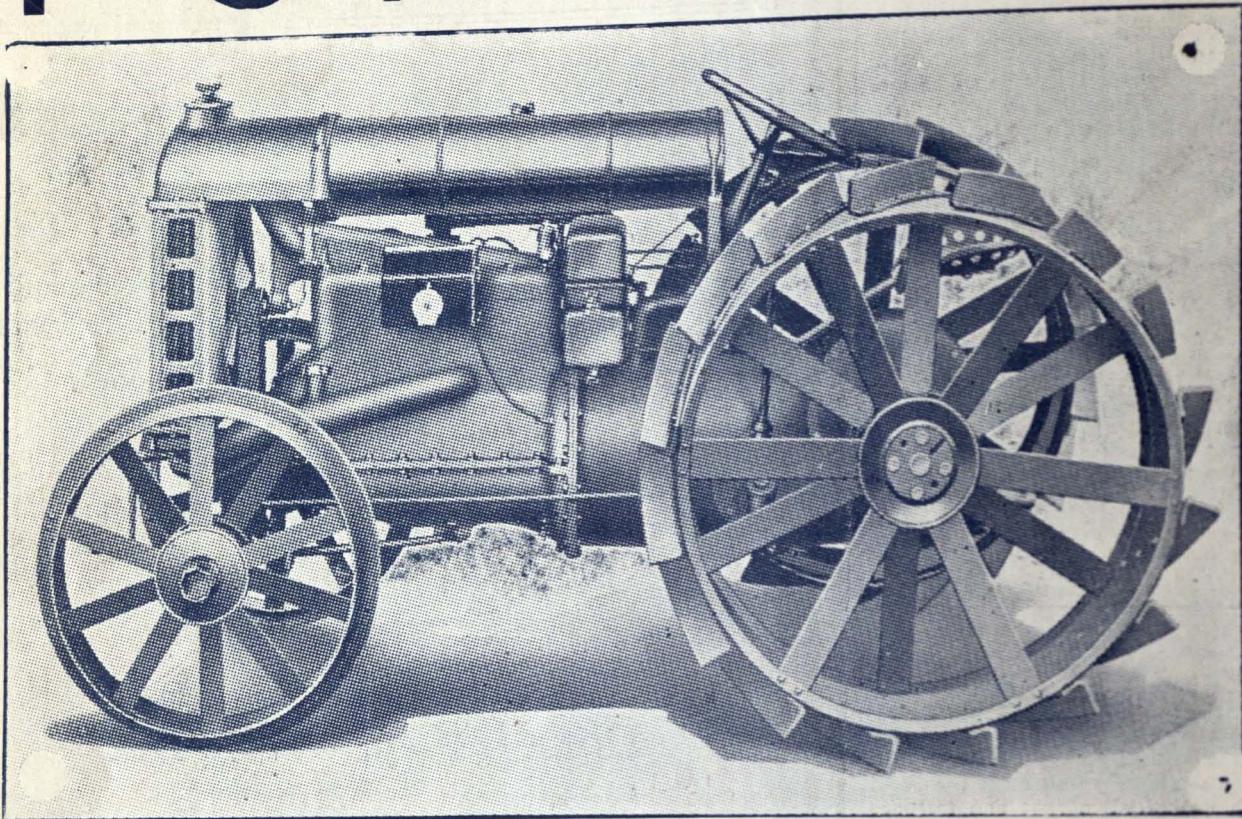
## Chamber of Commerce

BUREAU OF INQUIRIES

Phoenix, Arizona

# FORDSON

The  
Universal  
All  
Purpose  
Tractor



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