DESERET EVENING NEWS: THURSDAY, JUNE 16, 1904.

acre of land on that farm every year. He keeps no record, so that I could not find out what his yields were, but he told me how much milk he sold, and he has cleared \$2,000 a year selling milk and young cathe. He gets \$100 each for calves, and is one of the most in-telligent breeders in the United States. He does yeary little work himself but

He does very little work himself, but one thing about the place is absolutely

every one of them for three years past; he knew the farm like a book. There is an example of system in manage-ment. I have written up all I could learn about that farm. Before I left home I handed it over for publication, and it will be published in the year book of the Department of Agriculture during the winter. I contend that it is worth a great real to the average famer

worth a great real to the average famer to have a description of the work of

most successful farmers; and that is the work we are doing in encouraging the study of system in farm manage-

Have chosen the San Pedro Line as the

LODGE OF ELKS

THE SALT LAKE

ment

FARM MANAGEMENT.

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One of the most helpful and suggestive papers on farm management that, we have read in many a day is the address of Prof. W. J. Spillman, agrostologist, U. S. Department of Agriculture, made before the 25th annual meeting of the Ontario Agricultural and Experimental Union, held at the Onfario Aricultural college, Gueiph, December 7 and 8, 1903. After complimenting the experimental Union on the eminent success of its efforts to improve farm conditions in Canada, Prof. Spillman said:

When I was a boy on the farm I con crived the idea of going away to school On the farm where I was brought up, i as the custom to start to the field seven o'clock in the morning. We quil very promptly at hoon and rested an hour, then worked till 6 o'clock in the evening. We lived considerably farther south and the winter days were not as short nor the summer day as long as they are here. We made a living, however, even if we did not work more than 10 bours a day. When I decided to go to college I was raking and scraping together enough to pay my expenses, and I decided that after we had finished our fail plowing I would live out to a neighbor and earn, a little more money. I went to one of our neighbors and engaged with him to do some plowing. The firm on which this neighbor lived was one of the best wen o'clock in the morning. We qui our heighbors and engaged with him to do some plowing. The form on which this neighbor lived was one of the best in the country, and the man who pre-ceded him had made a tortune off it and retired. Mr. Brush, who had rented the farm, had expended considerable money, and had bought six good horses, itve good cows, and farm machinery. I went down at 6.36 In the morning to start work, and when I arrived there were a number of furrows plow-ed around the field. When he came around, he said: "You are a little late;" and I asked him when they began, and he repiled. "At four o'clock in the morn-ing." I said, "Do you expect to make a profit on this farm?" He said. "If hard work will do it, I do," He was plowing about two and a half inches deep. What were the results? Two years inter Mr. Brush had two old, worn-out horses, his cows had all been sold, or had starved to death and further to achieve and the sold. horses, his cows had all been sold, or had starved to death, and finally he moved into Indian Territory, where a man could brand faithe enough to keep the wolf from the door. He is now in a poorhouse in the North, and his wife and the rest of the family as dood wife and the rest of the family are dead. This is the best illustration I have of This is the best illustration I have of the man who believes that farming consists of hard work. He was going to make a Hving on that farm if haro work would do it. I want to tell you that hard work alone will not make a living for a man anywhere. I want to say further that one pound of brain of the farm is worth a ton of muscle. I was very much interested in the talks which preceded me this evening. One of them suggested to me a farm home with which I have the honor to be well acquainted. It was at one time my duty to judge the butter at a State

my duty to judge the butter at a State Fair in Washington, and in awarding the prizes I was required to give my reasons for giving them. I did not know whose butter it was that had won first prize, but it was one of the finest samp that had ever come to the ansociation. In my talk I told them this, and said that I could tell some things about the man who made the butter, although I did not know who have the butter, atthough I did not know who he was. He happened to be sitting on a seat right in front of me, and it was the first time he had attended one of our meetings. When I got through, he rose up and asked I got through, he rose up and asked some questions. I saw immediately that I had a man of brains to deal with, and I answered him as intelligently as I could. I saw that he knew something. I had spoken particularly about the excellent flavor of the butter, and made the remark that the man who fed the cows understood the science of feeding to get butter of that flavor in the tate winter. He said that his principal feed at that time was turnips, and that they were old and strong. Then I knew that I was dealing with an exceedingly intelligent man. I said, "I can tell you just how you feed turn-ips," and I told him, "Yes," he said, "that is exactly the way I do it." I said, "Where did you learn," He said, "From experience, and I read it in the said, "Where did you learn," He said, "From experience, and I read it in the papers." I afterwards cultivated his acquaintance. He had been educated for a lawyer, but had given it up be-icause he had been very successful in some commercial ventures, and had cash in the bank and partly owned a mercantile establishment. He became so properous that he thought be head cash in the bank and partly owned a mercantile establishment. He became so prosperous that he thought he had 'enough money ahead to develop a supposed iron mine, and lost everything he had in it. He went into the woods, and took up eighty acres of land, and cleared off a little place large enough to build a house and barn, and when he got them built he was three thou-sand dollars in debt. He was three thou-sand could get credit. In nine years he had paid that debt, had built a nice modern dwelling, had built a large com-modious barn, and had cleared off 46 acces of land. Twenty acres was natural prairie, and was kept in pas-ture, but some 45 acres he had put un-der the plow. During that time he never hired a day's labor, but he, with his three boys and three girls (the old-est boy being sixteen at the time he went on the farm) have done the work of the place and built the houses. They never went to work before seven a clock, and no one every did one actes of a clock never went to work before seven o'clock, and no one every did any work after six o'clock, but the evening was re-merved for reading and amusements. The oldest boy in that family came Refved for reading and amusements. The oldest boy in that family came to school with me later, and graduated in agriculture, and wass affered a valuable position in Washington, but he refused it to go back to the farm, because he had not been educated away from the farm, and farm life to him had not meant drugery. That home is a model home to-day, and one of which the State of Washington is proad. There is a case where hard work combined with builts, has made a home. He now has forty head of fine Jersey cows, and an income of 33,800 a year from that little farm. The average yield of hay on farms in the Inited State is 1.1 ton per average yield of hay on farms in the United States is 1.1 ton per aver. On some of our best conducted farms, it is not far from 7 tons. This difference in soil and climate, for it is not infrequently found ob adjacent forms. difference in soil and climate, for it is not infrequently found ob adjacent farms. In such cases it is due to differ-eaces in methods of management of the soil. Similar differences are found in the products of herds of cattle on adjacent farms. We may say that it is slimply a matter of difference between men; and this is very true. Our prob-lem then is with the farmer himself. It is a mistake, however, to suppose that these differences between men are necessary: they frequently represent differences in opportunities; and swhen this is the case, it is possible to lift. this is the case, it is possible to lift a man out of the average class and place him amongst those in the fore-front of his calling. Herein is the jus-tilication for much of the money ex-



pended in recent years in agricultural investigations and in bringing before the farmer the results of these investi-gations by means of schools of agri-culture and other means of disseminating information.

WHAT FARMERS MUST UNDER. STAND,

The subject before us is so broad and omplex that I shall be confined, in a rief discussion of this character, to ery general remarks. The furmer must not only be a business man, knowing how to buy and sell to advantage, how prevent waste, and how to arrange the details of a complex business, but he nust understand something of the principles of chemistry, botany, me-chanics, and animal and plant physi-ology. To do this he must not only posaccess executive ability, but he must he a student. The most frequent mistake the farmer make: is to think too little and work too much. Even on a small form it tave better to see on a small and work too much. Even on a small farm, it pays better in every way for the responsible head to spend a por-tion of his time studying the literature on his subject, and in laying out plans for the work, even if extra help must be hired to take his place in the field. Sooner of later the direction of the work on American farms will devolve on those whose time is worth more when they are employed thinking than it is when they are doing manual labor. He who plans the work of a farm must not work so hard that he has no energy left to do the planning; if he does he will sometime find himself working under someone who does take time to plan.

PLANNING THE WORK,

plan.

To run a farm properly, no matter ow small it may be, someone must decide many important questions every year. One of the most vital of these is what crops to grow. In order to show Is what crops to grow. In order to show how complex such an apparently simple question my be let us consider for a, moment the number of things that must be taken into consideration m answering it. First, there are the cli-matic conditions. The relation of most crops to climate is fairly well under-stood, so that this phase of the ques-tion is usually of minor importance. It is of much importance, however, in the is of much importance, however, in th case of any new crop. Quite recently our farmers across the line have been our farmers across the line have been greatly concerned about the climatic relations of alfalfa, Many have refrain-ed from sowing this most valuable of all hay corps under a mistaken no-tion that is was not adapted to humid or to fairly cold climates. The amount of labor involved in handling a crop must also be considered in deciding what cross to grow Farm labor is what crops to grow. Farm labor is growing scarcer and less satisfactory every year in our country, and there is a strong tendency to adopt styles of farming that require a minimum of labor. Most American farmers are till-ing too much land, and the crops grow,

work, tempered by good judgment, and based on the results of successful prac-There are those, doubtless, who would maintain that the student of agricul-ure has done his duty by the farmer when he has unveiled the principles when he has unvend the print the the farmer must apply in his work. Yet the problem the farmer has, of apply-ing these principles in practice, is often greater than that of discovering them. Can we not help him in this difficult Can we not help nim in ins dimos-undertaking, or shall we teave him to his own resources? Since the proper planning of the work of the farm is the most important element in the final results, it seems to me that we can it seems to me that we can advance this great and fundamental industry in no other way so certainly and so rapidly as by giving the farmer all possible ald in this direction. Much has already been done in this line. The has already been done in this inter is better class of agricultural papers have taken up the subject, and, by publish-ing accounts of the metaods used by successful men, have furnished sug-gestions to others, which have resultsuccessful filer, have result-ed in much improvement in methods of farming generally over the country. Buit in publishing such accounts the newspaper naturally selects those points which will make an interesting story, and omits many details which are necessary to a clear understanding of the methods described. I am of the opinion that it is desirable to furnish farmers with full and accurate state-ments of the methods used on the most successful farms of all types. This might not make the best reading mai-ter for a newspaper, but it would fur-nish good material for study on the part of the farmer and is, therefore, suitable for publication in the form of buileting.

of bulleting.

I have already pointed out the differ-ence in the results obtained by the average farmer and the best farmers. The best farmers are those who are able, unaided, to adapt themselves to The best failed, to adapt themselves to the conditions surrounding them, and to work out in a practical way the problem of applying the teachings of science to their work. The average man is waiting to be shown, and, fortunately, he can be shown. The dif-ferent classes of farming are very well described by Elbert Hubbard, who, in speaking of initiative, says: "It is do-ing the right thing without being told. But, next to doing the tilng without being told, is to do it when you are told once. Next, there are those who never do a thing till they are told twice. Then, still lower down in the seale than this, we have a fellow who will not do the right thing even when will not do the right thing even when will not do the right thing even when someone goes along to show him how and stays to see that he does it." There are some farmers who learn the secret of success without being told. Others succeed when they are told how to do it; unfortunately, there are others who would not succeed with any amount of help.

RAISING THE STANDARD OF FARM PRACTISE.

Acting on the assumption that there are many farmers whom we can ma-terially assist by furnishing them the best accounts we can secure of the methods of our most successful farmers, we are now engaged in a search for men who have been pre-eminently successful in the various types of farm-ing in order that we may describe ing, in order that we may describe their methods in some detail in the publications of the Department of Ag-riculture. Occasionally we find a man who knows more than he cares to tell, who knows more than he cares to tell, and this is not surprising. I met a market gradener the other day who is getting rice growing a crop his neighbors have been unable to grow. He would not tell me all I wanted to know, nor could I blame him for it. Usually, however, such men are suf-ficiently philanthropic to give others the benefit of their experience, even if they lose some advantage thereby. In all the cases that have yet come If they lose some advantage thereby. In all the cases that have yet come under my observation; these pre-em-imently successful men are students. Not only are they familiar with the teachings of agricultural science, but they have worked out practical me-thods of utilizing scientific principles in their farming operators. I may over-estmate the value of this work: but it seems to me that it is a very promis-ing means of raising the standard of farm practise. farm practise.

HUMOROUS.

Mary had a little waist, She laced it smaller still; A stone o're Mary has been placed Out on the slient hill. * —Hlustrated Bits.

A certain young city-bred frau Attempted to milk a cau; Next day, about three, She told the M. D. *

"I'm resting some easter nau!" --Milwaukes Sentinel.

one thing about the place is absolutely remarkable, and that is the system and orderliness. He said, "I can leave home at any time, without notice to my hired hands, and be gone a week, as L frequently an on Farmer's In-stitute work, and when I come back home, just as soon as I see either one of my hired men I know what they are both doing every hour of the day." He had twelve fields on that thirteen-acre farm, but he sat there and told me the crops that had been "rown on every one of them for three years past; he knew the farm like a book. There Well, Kadley is dead. He was mighty tough character." "Yes, killed out West by a premature explosion of dynamite, wasn't he?" "It was an ex-plosion of dynamite, but I wouldn't call it 'premature.' "--Philadelphia Press.

Mahogany Al (at the back door) Mahogany Al (at the back doof): "Have you anything to do in my line today, madam?" Mistress: "What's your trade?" Mahogany Al: "Dentist, madam. I ban put a good set of teeth in a mince pie for you free of charge." —Star of Hope.

A boy who swims may say he's swum, but milk is skimmed and seldom skum, and nails you trim, they are not trum. When words you speak, those words are spoken, but a nose is tweak-ed and can't be twoken, and what you seek is fiever soken. If we forget, then we've forgotten, but things we wet are never wotten, and houses let cannot be lotten. The goods one sells are always sold, but fears dispelled are not dis-pold, nor what you smell is never smoled. When young, a top you oft saw spun, but did you see a grin e'er grun or a potato neatly skun?-Tit-Bits.



A disease so painful and far-reaching in its effects upon the human system as Rheumatism, must have a deep and well-laid foundation. It originates and develops in the blood, and, like other diseases of the blood, is frequently inherited. The poisonous acids with which the blood is charged circulate through the system, breaking down the health, irritating

down the health, irritating the nerves, settling in joints and muscles, and causing the sharp, cutting pains, peculiar to Rheumatism. Unless the seemed to help me. Finally I left off their moths, and the blood is purified, joints and muscles become coated with the acrid matter and are ren-dered stiff and sore, and the Bhoumatism. Unless the seemed to help me. Finally I left off their moth was helping me, continued, and to day am sound, merves completely wrecked. Bhoumatism. Unless the seemed to help me. Finally I left off their moth was helping me, continued, and to day am sound. Bhoumatism heirs a constitutional blood discore R. H. CHAPMAN.

Rheumatism, being a constitutional blood disease, requires internal treat.

Rheumatism, being a constitutional bithings as are applied outwardly, give ment. Liniments, plasters and such things as are applied outwardly, give only temporary relief. S.S.S. is the recognized great. est of all blood purifiers and tonics, and in no disease 66 sist of all blood purifiers and tonics, and in no disease does it act so promptly and beneficially as Rheuma-tism, neutralizing the acids and restoring the blood to a pure, healthy condition and invigorating and to a pure, healthy condition and invigorating and vegetable. Write us should you desire medical advice, which will cost you THE SWIFT SPECIFIC CO., ATLANTA, GA.







must be governed to no small extent by the amount of available working cap-ital. Then the system of cropping must be such that the crops dovetal to-gether, so that no land shall lie idle between crops. The crops must also be chosen so as to distribute the work during the year. Otherwise, the farmer must depend largely on temporary labor, which is always unsatisfactory and high priced.

Then there is the question of the adaptability of the soil to the crop, which requires considerable special knowledge. Few farms are uniform in all parts, as regards the character of the soil. One part is better adapted to oats, another to polatees. Shall the to oats, another to potatoes. Shall the farmer follow his rotation blindly, or shall he increase the acreage of this crop next year, when it hits on the field best adapted to it, and decrease its acreage next year, when its turn comes on another field not so well suited to it. Again, the prevalence of certain insect pests or fungous diseases may have an important beering on may have an important bearing on the choice of crops. Finally, there is the question of markets to consider. In our Southern States farmers are greatly handleapped because cotton is the only crop they can grow for which there is a market ready at hand.

I have also used this subject some-what in detail to show how complex may be the simple question. "What crops shall I grow?" Yet this is only one of many questions just as com-plex that must be answered every year pick that must be answered every year on every farm. For instance: What stock, if any, shall be kept on the farm 1 Shall it be horses or cattle, or sheep or swine, or two or more of these? If cattle, then shall we go in for dairy-ing or beef production, or both? In either case, what breed shall we choose, and how many heads shall we attemnt

and how many heads shall we attempt to keep? What feed shall we raise, and how many acres of each kind? If we decide on darying, shall it be butter or cheese or milk? Take a simpler case. Here is a crop Take a simpler case. Here is a crop or oals to be grown, "What variety is best?" "How shall the soil be perpar-ed"" "What crop shall it follow?" "What manure is it best to use, and how much?" "When shall the seed be sown?" "At what rate per acre?" And so on ad infinitum. Is it any wonder that many of these investions are an so on ad infinitum, is builded are an-that many of these questions are an-swered wrongly, even on the best of swered farms?

WHAT IS FARM MANAGEMENTS

The continued answering of a host of questions similar to those above constitutes Farm Management. No business calls for wider knowledge or better judgment thus this. We cannot take all these questions into the labor-atory and answer them with test tube and scale. They must be worked out on the farm in actual practise. The whole subject is so complex that its main features must be largely guess-

FARMERS THINK TOO LITTLE. The most frequent mistake the farmer makes is to think too little and work too hard. I know an old farmer

in Missouri who made a great success; but he made most of his money lying awake at nigth thinking. It is thinking that pays on the farm. Study the lit-erature of the subject, and lay out erature of the subject, and lay out plans of the work, even if you have to pay for help in the field. The point I want to make is this: I have con-ceived the idea that the student of agriculture may help the farmer in planning his farm work—help him to introduce into practise on the farm the principles discovered by the scien-tist. Turk how ice no about that is a litthe principles discovered by the scien-tist. Just how to go about that is a lit-tile difficult. But let me tell you of one method we are introducing. In travel-ing over this country and in the United States. I find here and there a man like the one I spoke of a little while ago-a man who has been pre-emi-mentic unconsected in some pre-emily successful in some particular When 1 discovered such a man, It camp with him until I have made a complete statement of everything that man does. I afterwards publish this information in bulletin form, in order that less successful men may order that less successful men may have him to follow as an example, If I were to write a bulletin and tell the farmers how they ought to do, they would make fun of me. They would say: "You go and try it; it cannot be done." So I go about it in a different way: I show what another man has done, and say: "You go and do like-wise."

NOTABLE EXAMPLE OF THRIFT.

I am now going to tell you of a man who has done the impossible, I hesitate to tell half the truth regarding this man; but a better man than I had already published these things over his own signature. I refer to L. H. Balley's leading article in the November numown signature. I refer to L. H. Balley's leading article in the November our-ber of "Country Life in America." In hunting for successful men I ran across a minister in Philadelphia, Rev. J. D. Dietrich, who, in 1881, inherited a little thirteen-acre farm, with one horse and two cows. The farm was in the suburbs of the city, and had been run down by two hundred years of un-scientific farming, and at the time he assumed charge, it did not support the one horse and two cows. Mr. Dei-trich had never had a day's experience on the farm in his life. He went to reading, and the first book he got hold of was Young's little book on "The Soil and Cattle." He got an idea from that book, which was that on a thir-teen-acre farm, where land is worth \$1,500 an acre, he could not afford to grow pasture, so he put his cows in the barn and commenced growing feed, and cutting that fard and carrying it to the grow pasture, so he put his cows in the barn and commenced growing feed, and cutting that feed and carrying it to the cows. He lost four hundred dollars as the result of his first year's operations. During the next six years he paid off a mortgage of \$7,200 which was on the property, and the next year he spent in Europe, He is today a director in three large comporations and one of

In Europe, He is today a director in three large corporations, and one of the best known men in the United States. He has a continual stream of visitors flocking to see that little farm, or much so that he in thinking of the now keeps thirty head of stock on that farm, and last year sold thirty, the now keeps thirty head of stock on that farm, and last year sold thirty, the now keeps thirty head of stock on that farm, and last year sold thirty, the now keeps thirty head of stock on that farm, and last year sold thirty, the now keeps thirty head of stock on that farm, and last year sold thirty, the solding crops, and buys gluton and solling crops, and buys gluton opmercial fertilizers. If you will cal-culate how much dry matter it will take to supply thirty head of stock, you will get an idea of what the farm produces, and it was the best keep the calculation, you will find that it will take seven tons of hay to every



THUS spoke the late President McKinley in his famous speech at Buffalo, It was true then-is true now. It was true of the Expositions held at Paris, Philadelphia, Chicago, Antwerp, Buffalo--"timekeepers of progress" every one. And these words were not only true, but prophetic, as applied to

The Great Louisiana Purchase Exposition

It is distinctly a "timekeeper of progress."

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Secretary Walter B. Stevens aptly says:

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