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**E. T. SPENCE**

## TAFT'S ADDRESS

Continued on page 2

economic force shall exert itself along the lines of easiest and best increase of production. Of course the Government, by furnishing assistance in irrigation, increases the amount of tillable land, and the States, if they undertake the drainage of swamp lands, will do the same thing. The cost of such improvements will be considerable, and will affect the farming profit, but the result generally in such cases is to yield such great crops per acre that the farmer can well afford to pay interest on the increased investment.

Increased acreage from any other source is likely to be, however, in more stubborn land, calling for greater effort in tillage and producing less per acre. We may reasonably infer from the high prices of the decade immediately past that everything was done by those who owned the land to enlarge the acreage where that was easy or practical and that is what is yet to be brought in as tillable land presents greater difficulties and greater expense. The way in which the States can help to meet future increased demand is by investigation and research into the science of agriculture, and by giving to the farming community a knowledge which shall enable them better to develop the soil, and by educating those who are coming into the profession of farming. It is now almost a learned profession.

The first great step that has to be taken in reformed agriculture is the conservation of the soil. Under our present system the loss to the farms in this country by the erosion of the soil is hardly to be calculated. Engineers have shown us how much is carried down the great rivers of the country and is deposited as silt each year at their mouths. The number of cubic yards staggers the imagination. The question is how this can be prevented, as it must be, because the soil which is carried off by this erosion is generally the richest and the best soil of the farms which are thus denuded.

Of the rain or snow which falls on the land, a part evaporates into the air; a second part flows down the slopes to the streams, and is called the run-off. The third part soaks into the soil and sub-soil, and thence into underlying rocks, perhaps to reappear in springs or seepage into streams. This is called ground water. The fourth part is absorbed by organisms, chiefly by trees, grasses, and crop plants, either directly through the tissues or indirectly through the roots penetrating the moistened soil. Erosion is due to the run-off, and its quantity is dependent on the slope of the farm and also the nature of the soil and its products. Any reasonable slope, and any full cover of forest or grass with an abundant mulch, or a close crop on a deeply broken soil, or a friable silt kept loose by suitable cultivation, will absorb rain and curtail the run-off, or even reduce it to slow seepage through the surface soil, which is the ideal condition. Now, the ground water is the most essential constituent of the soil, because solution, circulation, and organic assimilation are dependent on water. All the organisms and tissues are made up of this solvent of water and it constitutes a large percentage of the bodies and food of men and animals. The question of the amount or ratio of ground water in the soil is a vital one. If it is excessive it makes a sodden mass, sticky when wet, but baked when dry, so that there is no possible absorption further into it, and it sends on the water that falls on it to erode easy slopes.

The erosion begins on the farm and should be remedied there. Deep cultivation tends to absorb the product of each rainfall and to reduce the run-off. Deep cultivation brings up fresh earth salts to the shorter rootlets, but carries down the humus and mulch to thicken the soil and feed the deepest roots. In flat lying fields and tenacious soils tile drainage is the best method of relieving the farm from the danger of too great run-off. Deep drainage permits both soil and sub-soil to crumble and disintegrate and through mechanical and chemical changes to become friable and capable of taking on and holding the right amount of moisture for plant growth, while the water which runs out through the drain is clear without carrying the soil with it, and therefore without erosion. Certain farms require what is called contour cultivation, by which each furrow is to be run in such a way as to level and to hold the water. On hilly lands strips of grass land are grown called balks or breaks, separating zones of plow land, and they should curve with the slopes and the soil being carried by the water will be caught by them and constitute the making of terraces without effort. The use of forests, of course, in foothills and deeply broken country is essential and should be combined with grazing. They will prevent the formation of torrents by making the mulch and soil deep and spongy. Of course, over all mountain divides the retention of forests greatly helps to prevent the carrying off of the good soil to the valleys below. The proper selection of crops has much to do with the stop-

ing of erosion.

I gather these facts from the reports of the Secretary of Agriculture as to the best method to prevent erosion. They are simple and easily understood, but they need to be impressed upon the farmers by education and by reiteration. Then the productivity of the soil might very well be increased by more careful use of commercial fertilizers. In 1907 \$100,000,000 was expended in fertilizers, but the Agricultural Department is of opinion that one-third of this was wasted for lack of knowledge how to use it.

Careful crop rotation is essential because it has been found that the remains of one crop have a poisonous effect upon the next crop if it is of the same plant, but such remains do not interfere with the normal production of a different plant. Then a kind of crop may and should be selected to follow which will renew that element in the soil which the first crop exhausted.

Then there is the organization of the farm on plain business principles by which the buildings and the machinery are so arranged as to make the movement of crops and food and animals as easy and economical as possible. A study as to the character of the soil and the crops best adapted to the soil—all these are questions that address themselves to a scientific and professional agriculturist, and which all farmers are bound to know if the product per acre is to be properly increased. We have every reason to hope, from the forces now making towards the education and information of the farmer as to the latest results in scientific agriculture, that the country will have the advantage of improvement in our farming along the proper lines. Further agricultural development is to be found in the breeding of proper plants for the making of the best crops, while the growth of livestock is made much more profitable both to the owner and to the public by improving the breed and infusion of the blood of the best stock.

The improvement in agricultural education goes on apace. All the States are engaged in spending money to educate the coming farmer, and this system is being extended so that now we have the consolidated rural school, the farmers' high school, and the agricultural college, and one who intends to become a farmer is introduced to his profession soon after he learns to read and write, and he continues this study of it until he graduates from his college and applies for a place upon the farm.

The land-grant colleges established by the Federal Government have vindicated the policy in making the grant. Now the department employs 11,000 persons, many of whom are engaged in conducting experiment stations and spreading the information all over the country. The co-operation between the State agricultural school system and the Federal Government's publicity bureau and experimental work is as close and fine as we could ask. It is difficult to justify the expenditure of money for agricultural purposes in the Agricultural Department with a view to its publication for use of the farmers, or to make grants to schools for farmers, on any constitutional theory that will not justify the Government in spending money for any kind of education the country over; but the welfare of the people is so dependent on improved agricultural conditions that it seems wise to use the welfare clause of the Constitution to authorize the expenditure of money for improvement in agricultural education, and leave to the State and to private enterprise general and other vocational education. The attitude of the Government in all this matter must be merely advisory. It owns no land of sufficient importance to justify its maintenance of so large a department or of its sending into all States agents to carry the news of recent discoveries in the science of agriculture. The \$50,000,000 which has been spent for research work in the department, however, has come back many fold to the people of the United States, and all parties unite in the necessity for maintaining those appropriations and increasing them as the demand shall increase.

It is now proposed to organize a force of 3,000 men, one to every county in the United States, who shall conduct experiments within the county for the edification and education of the present farmers and of the embryo farmers who are being educated. It is proposed that these men shall be paid partly by the county, partly by the State, and partly by the Federal Government, and it is hoped that the actual demonstration on farms in the county—not at agricultural stations or schools somewhere in the State, but the county itself—will bring home to the farmers what it is possible to do with the very soil that they themselves are cultivating. I understand this to be the object of an association organized for the improvement of agriculture in the country, and I do not think we could have a more practical method than this. It is ordinary not only wise to unite administration between the county and State and Federal Governments, but this subject is one so all-compelling, it is one in which all people are so much interested, that co-operation seems easy and the expenditure of money to good purpose so free from

## LARGE THINGS TOLD IN A BRIEF MANNER

Lebanon is soon to have an eight room hospital.

A Silverton man has raised a fine crop of peanuts.

At Corvallis, prunes are being given away for the picking.

A forty acre apple orchard has just been sold near Lebanon for \$25,000.

Fresh homegrown strawberries were served to President Taft at Eugene.

Coal has been discovered in the mountains near Burns, Harney county.

Marion Butler was fined \$52.50 for shooting a native quail near Independence.

A Woodland, Wash., farmer recently sold \$600 worth of rubarb from one acre of ground.

Specimens of pertified fig leaves have been unearthed on the farm of W. G. Goudy, near Cottage Grove.

A shipment of 24,000 pounds of clover seed has just been sent from McMinnville to Seattle at 20 cents per pound.

During the past nine months the Silverton creamery has bought \$30,000 of butter fat from the farmers of that section.

Scarlet fever has become epidemic at Newbridge, in Baker county.

At Godendale, Wash., a farmer sold 81 hogs that weighed 250 pounds each.

Shipments of sheep to the number of 30,000 have left Huntington within the past few days.

While landing a fish in the Siuslaw River, Joe Morris lost a \$20 pair of spectacles in the stream.

Every director of the defunct State Bank of Commerce at Wallace, Idaho, has been placed under arrest.

A party of four persons who spent two months in the Big Pine Oeninas have just returned to Eugene with 1,000 fish.

The Booth-Kelly mill at Springfield, employing 250 men, which was recent-

ly consumed by fire, will be rebuilt at once.

The Willamette Valley exhibit for the Omaha Land Show, consisting of a carload of Oregon's prize products, has been started East.

Jonh W. Bergman, for 20 years captain of the life-saving crew at the mouth of the Umpqua River, has just retired after a splendid record.

Two letters threatening death to Dr. U. C. Coe, mayor of Bend, unless \$500 should be deposited in a can by the Deschutes, have been received by him.

A Sherwood the other day Ira Smock drove his team into a 16-foot well. The team was taken out alive by the use of a windlass, but badly injured.

There are now between 300 and 400 men at work on the Oregon Electric grade and trestles between Albany and Santiam, and about 250 head of horses and mules.

Clare Baker, a switchman in the Southern Pacific yards at Albany, rescued the three-year-old son of F. F. McTimmons, who was playing on a trestle, by running ahead of the train and leaping into the canal with the child in his arms.

## Plans Enlarged

For the third time, the plans for the San Diego Panama-California International Exposition, 1915, have been recast and enlarged. This was made necessary by the constantly enlarging scope of the Exposition. Frank F. Allen, Jr., Director of Works, announces that work will begin on the buildings in November. It is predicted that this Exposition will be the most beautiful, unique and artistic ever held.

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If you cannot be fitted properly or you have bad feet, I'll make you a pair of Shoes or Boots to measure that will fit you, and will make them, if necessary, in one day. I absolutely refuse to make Dress Shoes be-

cause I am not equipped for it, but if you want a pair of Shoes that will wear, you can get them here at reasonable prices. Nailed bottom Shoes from \$5.00 Hand-sewed welts from - \$6.00 Satisfaction Guaranteed.

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The Oregon, California and Nevada Live Stock Protection Association, of which the undersigned is a member will give \$1,000.00 reward for evidence leading to the arrest and conviction of any party or parties stealing horses, cattle or mules belonging to any of its members.

In addition to the above, the undersigned offers on the same condition \$100.00 for all horses branded horse shoe bar on both or either leg. Brand recorded in eight counties, Range Harney, Lake and Crook counties. Horses wanted when sold.

None but grown horses sold, and only in large numbers. W. W. Brown, Pile, Oregon.

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