THE ONTARIO ARGUS, ONTARIO, OREGON, THURSDAY, FEBRUARY 26, 1920.

Seligman's Studio

IRRIGATION AND SOIL IMPROVEMENT

Irrigation in Utah was first pracalthough there is yet much to be learned of firrerent soil and plant reautrements.

irrigation, the Border (Flood) and progress has been made during the in this section, with the former preferable either method the runs should be of surface conditions.

Time of Irrigation

Fall irrigation is strongly recommended, for the reason that if thru- only to the farmer but to the world. out the dormant season the soil remains wet the dissolution of such man's job. materials as are needed for use of plant life occurs, and as the carbon dioxides in the water exert a strongly solvent action upon the minerals of the soil as also do the morganic salts and plant and animal residues. this is of tremendous value during the early spring growth. It also hastena the germination of seeds and should the soil contain from 10 to 15 per cent water to a depth of 8 or10 feet spring irrigation may be delayed, which is especially desirable for cereal crops that the rootlets may penetrate the soil deeply. Pastures should receive early and frequent light irrigations.

Soil Composition

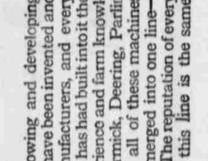
Of the ten distinctive separate elements necessary to crop production Nitrogen Phosphorus and Potassium limit the quantity and quality to a greater extent than do the remaining seven. These three must be properly proportional. Should either be deficient the soil will produce only in the proportion of its existence, i. e., should either be or become 10 per cent out of proportion less than that required by nature the crop yield would be decreased to that extent. the excess thus created in the others would remain dormant until the deficit is restored, then an, increased production may be obtained by increasing the amount of these cloments in the proportion required by natrue. This is her law, there is no exception. Different types of soli must necessarily contain different amounts of these elements and frequently they are not well, balanced. Analyzation of the soil and fertlizer trials is the only accurate solution. However, the county agent may be able to approximately determine cause of trouble and suggest treatnient.

Soil Improvement Diversified farming is strongly recommended on all soils, here the question arises as to what crops are adapted to yours, that is your problem, and your success depends largekept between the maximum capillary saturation and the point of lento capilarity usually the condition known as "field moisture capacity' is near the desirable point. Anticipactons

The multiplicity of difficult subticed in Utah by the Mormons, Since jects and obstinate things an agrithat time practical experiments are culturist must solve, provide for and fast placing it upon a scientific basis, contend with are now becoming more fully realized thro the work of experiment stations and other scien-Of the five practical methods of tific investigators. That greater the Furrow (corrigation) are the just decade than in all time previous better under conditions as existing is beyond dispute, and it is to be hoped that by the aid of such organwhere practical. Under izations as the Farm Bureau the cooperation of the various districts, such length only as will secure an countles, states and the Federal even distribution of moisture, the Government the agricultural indussame to be determined by soil and try may be brot to a state of high efficiency in all its various branches. This is unquestionably one of the greatest problems of the age, not

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ly upon the proper solution. It is up to you.

A carefully planned cycle of high class crop rotation appears to have many advantages, enabling a steady economic use of water, utilizing all the different elements of soll composition which should replenish rather than exhaust the same, and by growing crops requiring water at different periods of the season the high power peak-load now made in furnishing water for a large acreage of meadow and upon which power charges are based, would be avoided. Furthermore, too extensive production of any one crop may eventually lead to overproduction which results in price stagnation. Experiments are being made in sowing vitch, soy beans, mammoth clover and other leguminous plants with growing crops as a fertilizer, and also for fall pasture, the success of which has not yet been fully determined although encouraging reports have been made, that the nitrogen humus and pasture are of great value is positive but the effect upon growing crops is in question.

Many fields treated with lime. potash, sulphur and other minerals for the use of different crops have shown excellent results, and where land is pregnated with alkali sweet clover is recommended.

Soil Requirements plowing is preferable to Fall spring for the conservation of mois-

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tura and in the adaptibility for early spring seeding. As no fixed rule of time of application, nor amount of water to be used can definitely be made which would be applicable to all localities, on account of surface and subsoil variations and with underlaying clay, hardpan gravel, etc., to be taken into consideration farmers must determine soll requirements of their various localities in making this important decision. However, upon applying water in the spring the soll should be





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