Our High Destinies Here Wait on Use of Available Water

Hitched to Eternity, the Wheels of Our Industries Harnessed to Water's Flow

Vast Undeveloped Hydroelectric Power Is Available in the White Coal Running Now Largely to Wast Down Our Mountains and Valleys

lem is bound to render this city will be appreciated more and an increasingly important indus- more. trial community; a manufacturing center working up the raw materials of the land and the for- through the advantages of its watests that make up the supporting er powers on oNrth Mill creek, with potential resources and then on South Mill creek, aidbeyond the dreams of even our ed later in their flow from the present day people, who have already witnessed what would have the latter has a major undertakbeen considered phenomenal progress by the pioneers who saw this section in the garb of primitive

This white coal of our water sources utilized here, and smaller powers largely yet running to still in the prospect of the vastly waste is comparatively easy and greater sources that will in good inexpensive of development. Distance of transmission is not as field as it was even a few years sings upon future teeming millions ago. But short lines from hydroelectric projects will always be a in this great Willamette valley. factor making for low cost of operation and low overhead.

Vast Source Near Within a distance of 50 miles of Salem, it was estimated a year ago that there were 250,000 horse power potentialities already marked out i nour streams and lakes; and the filings have been going eadlyion -egonts

on steadily since then. At that time there were within in at time of planting so they will 100 miles of Salem about 60 wat- be horoughly incorporated in the er power projects with above 100 soil and be in solution when the horse power each, and the devel- seedlings germinate, says Dr. W. oped power of these was 68,- I. Powers, chief in soils at the 799.24, and th etotal claimed Oregon State Agricultural college. horse power 529,892. It is reasonable to estimate a final total lowa vperiment staion rials whn of a million horse power in the water projects within a radius of fertilizer attachment on the plant-

100 miles of Salem. On The Santiam The filings on the power of stone can be applied with a lime-Marion lake and near by North stone spreader or with a manure Santiam water flows have come spreader the floor of which has into public notice recently, on ac- been covered with heavy barncount of diverse claims based on yard manure. A tail gate seeder surveys of the cities of Salem and is also on the market. This at-Albany, for domestic water sup- tachment distributes the material plies. The filings of the people in strips 20 feet wide. proposing power development Lime is bes opplied a soils that there mark out about 70,000 po- are known to be acid or of meditential horse power for hydroelec- um fertiliyt, where legumes such tric development. This is per- as alfalfa or clover are to be haps only about half the potential | grown.

of a competent engineer.) All his power is witthin 100 department miles of Salem, and over half of it within 50 miles, and a good deal of it within a less distance.

This will be cheaply developed. compared with the average cost of such projects throughout the country.

Reaching Further Out It is estimated that, within 150 Salem, three million horse power wonderful things you would do in may be developed, and within 200 the spring, with trees and shrubs miles, four million.

That is not a long distance, in time to get busy. If you haven't modern engineering experts, They dure, don't wait another minute. tric Power company, on the upper development. . reaches of the Clackamas river, is about the same distance from Salem as from oPrtiand: the water for the 105,000 horse power plant coming largely from the clernal snows of Mt. Jeferson, in the northeast corner of Marion county.

Hitched To Eternity The economic advantages of water powers that are exhaustless



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the home garden is plainly demonstrated by its unusual popularity, says A. G. B. Bouquet, vegetable gardening specialist at the Oregon experiment staion. The plants are prolific bearers of fruit, and as a canning crop the tomato takes first place among The white coal tributary to Sa- | in point of time are many, and | the vegeables. This popularity is amin content. It is sometimes called "the poor man's orange."

'Salem had her birth in a water power project; became a town A good stocky plant with a good root system is of primary importtomatoes. At the ime plants are Santiam ditch. The opening of inches high. The time for set-10 to 20 or afer the frost season fits still flow from this source; is over. I is best that the plants but they are small indeed as combe se down several hours before pared with the present power transplanting so hat soil will adhere to the root system. Commercial growers place plans from 4 to 5 feet apart and the vines ime be tapped and their energies are allowed to run on the ground, harnessed to innumerable new Home gardeners sometimes use much a barrier to progress in this plants and made to bestow bles- some method of supporting the plants, limiting the growh o three

or four main stalks.

Fertilizers for late spring crops

are best broadcast and harrowed

Best results are reported from

er, the material being sown a hte

SPRING PLANTING TIME!

Chemical fertilizers are frequently applied for the commercial production of early tomatoes. This fertilizer contains a considerable amount of phosphorus, and not much nitrogen or potash, being in the ratio of 4-16-4. On Ing in the latte of light soils more potash is used. When more than 500 pounds are used, broadcasting is the best method of distribution, but for hil applications 500 pounds an acre is adequate. The best time for distribution is before the plants

the hill distribution. For cannery tomatoes when early maturity is not expected, on the stem. It creeps out over iae treatments are applied with a ten tend to increase the yield. giving them an ashy appearance, Eight or 10 tons are applied to an followed by a somewhat rough or in ful bloom, it has been found, acre wih a supplementary distri- scabby condition. The fruit often side of the rows. Ground lime- bution of 400 pounds of super-

Applications of one to power of the North Santiam dis- one and a half tons per acre are that farm dehydrars be clean and spores are readily spread about by trict's flow. (This is the estimate sufficient. A new lime bulletin is in good condition. A strong solu- insects and by air currents and inavailable upon request at the soils tion of lye, or sawdust dipped in duce new infections; so that the cause much mold and odor. After 24 hours the lye and juice can be removed by washing and rinsing It is April. gentle reader, and thoroughly. Trays may be cleaned the spring planting season conby dipping with the same solusists of April and May, the most tion, and sunning to areate them. desirable period being from This kills the mold, making he about April 15 to May 15. If dehydrater clean and sweet, says you have been dreaming of the the Oregon experiment station.

Powdery mildew of grapes, which is seriously cutting down and vines and flowers, it is high the production of grapes in smallterms of transmision of power, for prepared a definite plan of proce- er plantings in Oregon, is easily controlled, says the experiment cover twice the distance in send- The folks that can help you in station. As the fungus is confining power over their high voltage making a plan or selecting plants ed to the outside of the grapes and lines in other sections, without ap- to use are going to be pulling the leaves, sulfur dust applied at preciable loss of energy. So the through a swamp of rush activity frequent intervals during the great Columbia river project is pretty soon, for it's a short sea- growing season will prevent the within easy reach of Salem power son and there is a lot to be done. development of the mildew. Best users, or rather wil be when it is The earlier you get started, the results are obtained by beginning developed. Also the vast powers earlier your plant orders are the treatment early in the season, of the Deschutes, just over the booker, and you get delivery just destroying the fungus before it be-Cascades, and the Mckenzie and so much earlier in the season, be- comes visible or does any damage. other great powers. The Oak fore growth is started enough to The treatment is repeated at 10-Grove plant of the Portland Elec- involve a setback for the season's day intervals to keep the growing parts covered with the dust.

THE TOMATO IS THE College Expert Tells How POOR MAN'S ORANGE To Control Powdery Mildew On European Type Grapes

The American Varieties in Commercial Plantings in This Section are Little if at All Affected by the Pest, However

John C. Burtner of the depart- best results he advises that the rely on the possibility of sufficipartly due to the value of its vit- sends the following for this an- gus before it becomes visible or nual grape Slogan number of The

The powery mildew disease is seriously cutting down the yield ance in the successful growing of and quality of grapes in Oregon, and before the first leaves are full according to H. P. Barss, plant set out they are from 8 to 10 pathologist of the experiment sta-While commercial growers tion. ting out the plants is from May are not seriously affected, a large to keep the growing parts covered number of persons in Oregon, growing grapes for their own use. do not understand the nature of this disease, nor how to control

While the cultivated American fected by the powdery mildew, the hybrids of the two types are check.' susceptible to serious injury by this disease. The vineyards in this disease. some sections of Europe were once threatened with extinction by the mildew, but a means of control has now been found that is effective the world over.

How it Develops The powdery mildew, it is belives over winter chiefly in the buds of grapes, says Professor Barss. Then when the buds shoot out in the spring, the mildew grows out on the new shoots, onto the young foliage. and into the clusters of blossoms.

The fungus is inconspicuous have been se out. The broadcast early in the season, but later application is done earlier than shows up in the form of grayish or powdery white patches on the surface of the leaves and sometimes rotted barnyard manure will of- the surface of the grape berries. ceases to grow in size as a result of this attack, and in many instances the skin may split and a deep crack appear on the fruit. In a severe attack the leaves may become crinkled and devitalized, and even drop from the vine, while the fruit is rendered entire-

The white powdery appearance is due to the presence of the fungus on the surfaces attacked and Before the season's operations to the spores which it produces become extensive, it is essential for its own reproduction. These lye and spread on the floor will disease frequently spreads with remove the old prune drips which considerable rapidity through the season from a small beginning.

Is Simple To Control Serious as this disease is, it is comparatively simple to control. As the fungus is confined to the outside of the grapes and the leaves, sulfur dust applied at frequent intervals during the growing season will prevent the development of the mildew, says Professor Barss, but to get the

ment of industrial journalism, grower begin the treatment early ent bacteria being present in the Oregon State Agricultural college, in the season, destroying the fun- soft, but experimens in various pars of the country have shown produces any damage at all.

"It is best to begin dusting with sulfur when the shoots are not more than a few inches long size." advises Professor Barss. "The treatment is repeated at intervals of ten days or two weeks with the dust. In fact, in the the inoculation of the seed with early part of the season when root nodule bacteria as soon as growth is very rapid, it might be weaher conditions permit. advisable to apply dust at inter- Washington-Idaho seed company vals of a week, especially if the also has a contract for 1000 acres disease has been severe in pre- of field peas in Umatilla county types of grapes are but little af- vious years. After the trouble is which require inocuiation. under control, dusting every two the European types and some of weeks will ordinarily keep it in value of inoculation and deter-

> The finer the sulfur used the less it takes to do the work and the better it will adhere to the vines, says Professor Barss, who recommends that the material us- county. ed be the best obtainable—either in the form of ground sulfur or of sublime sulfur, known as flowers of sulfur. It is best applied with some kind 6f blower or dust gun. Small outfits are obtainable at the larger seed stores.

Fine Sulfur Does Work

For best results dusting is done only when the air is still; just before or after sunrise is usually a good time. A heavy covering of dust is not necessary, if it is uniformly and thoroughly distributed over all exposed parts, says Professor Barss.

It does not hurt to apply sulfur dust while the grape clusters are some growers even reporting an apparent increase in fruit as a result of such a practice.

"The main things to be observed in connection with the prevention of powdery mildew are an early start and repeated applications until the middle of the summer when the danger of mildew damage is practically over," Says Professor Barss.

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in Umatilla county are being prepared for beans under contract of a large canning firm, which has asked Dr. Halversen to supervise

Experimental tests to prove the mine he most effective and efficient methods of application on beans and peas are planned by the C. in cooperation with Walter A. Holt. couny agent, Umatilla

Thorough inoculation of beans

and peas with root nodule bacter-

ia is one of the essential factors

W. V. Halversen, asociate bacter-

iologist of the Oregon State Agri-

cultural college. Many planters

ing, increase the yield consider-

in getting a good stand, says Dr.

CUT DEAD FLOWERS During your walk around your garden, carry a smal basket and a pair of shears to cut off all dead flowers. Just as soon as the bloom of a bulb has passed its stage of beauty, it should be cut off in order to keep the beauty and neatness of the garden. Likewise all perennial plants whose off. Cutting a few dead flowers each day will keep your flower bed clean and fresh all the time.

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The use of water for power and irrigation.

But that fact is evident to every upstanding observer now. Two-thirds of the water powers of the United States are in the Pacific coast states. Oregon has an eighth of the water powers of the country. Four million or more horse power is running to waste within a radius of 200 miles of Salem; a half million not far outside of a radius of 50 miles; certainly no toutside of a 100 mile circle.

The Willamette valley is the certain stage of a future population of ten millions of people, or more. With the use that artificial cultures, when apof our undeveloped water powers and the available water for plied to the seed a time of plantirrigation, this will be possible; with such a population maintained in comfort and in a high stage of average pros-Several thousand acres of land | perity.

> The available water used for rrigation will mean suger factories all over the valley; the full development of our flax and linen industries; the greatest dairying section of like extent in the world; vast truck garden and orchard developments, and a long train of indirect benefits in the way of stabilized industries on the land backing up the industries of the cities and towns, supplied with their raw products from the annual crops and the constantly ripening harvest.

Our water powers are as "permanent as the revolution of the earth; as certain as the sun." The resource of water, this gift of God, through the laws of nature, s a value that never diminishes, never dies, neve ris consumed, never wears out. never is used to exhaustion, destruction or extraction. This bacteriology department of O. A. clean white coal, possible benison and blessing, is as free as the grace of God for the taking; for bestowal n answer to the call of industry and science.

What a picture of the future! But a true picture, only waiting the magic brush of the practical painter of progress.

condition, is necessary to secure a desirable to produce this heavy large yield of root crops in Oregon, finds the experiment station-Applications of 20 to 40 ons of to the place where it is to be barnyard manure an acre are not stored. Commercial fertilizers, uncommon, and the crops are in particularly superphosphate in the blooms have ended should be cut such cases often grown on the coast region, he'; s to secure a same lad several years in succes- larger yield of roots.

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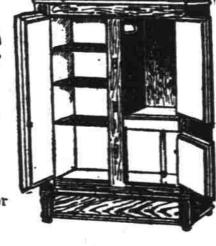
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