THE OREGON STATESMAN, SALEM, OREGON

THURSDAY MORNING, FEBRUARY 19, 1925



INDUSTRIAL OREGON PRODUCES QUALITY PRODUCTS =

'OREGON QUALITY" products are establishing themselves in world markets; they make our pay rolls they build our cities; they attract new capital and new people; they provide a market for the products of our farms. Oregon farms produce a wider variety of profitable crops of "Oregon Quality" food than any other spot on earth.

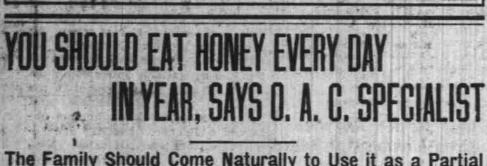
Dates of Slogans in Daily Statesman

(In Twice-a-Week Statesman Following Day)

Dairying, October 16 Flax, October 23 Filberts, October 30 Walnuts, November 6 Strawberries, November 13 Apples, November 20 Raspberries, November 27 Mint, December 4 Great Cows, Etc., December Blackberries, December 18 Cherries, December 25 Pears, January 1, 1925 oseberries, January S orn, January 15 Celery, January 22 Spinach, Etc., January 29 Onions, Etc., February 5 Potatoes, Etc., February 12 es, February 19 Poultry and Pet Stock, Feb. City Beautiful, etc., March 5. Beans, Etc., March 12 Paved Highways, March 19 Head Lettuce, March 26 Silos, Etc., April 2 Legumes, April 9 Asparagus, Etc., April 16 Grapes, Etc., April 28 Drug Garden, April 30

(With a few possible changes) Loganberries, October 2 Prunes, October 9 Water Powers, May 14 Water Powers, May 14 Irrigation, May 21 Mining, May 28 Land, Irrigation, Etc., June 4 Floriculture, June 11 Hops, Cabbage, Etc., June 18 Wholesaling and Jobbing, June 25 Cucumbers, Btc., July 2 Hogs. July 9 Goats, July 16. Schools, Etc., July 23 Sheep, July 30 National Advertising, August 6 Seeds, Etc., August 13 Livestock, August 20 Grain and Grain Products, August 27 Manufacturing, September 3. Automotive Industries, September 10 Woodworking, Etc., Sept. 17 Paper Mills, Etc., Sept. 24.

> (Back copies of the Thursday editions of The Daily Oregon Statesman are on hand. They are for sale at 10 cents each, mailed to any address. Current copies 5c.)



The Family Should Come Naturally to Use it as a Partial and Very Desirable Substitute for Sugar, and All Will Be the Heathier and Happier for it

(The following is a special ar-| Furthermore we find in honey ticle by H. A. Scullen, assistant some of those little known but professor of entomology and spe- extremely important elements flowering plants and shrubs, many are but few locations in the Wilcialist in bee culture of the Ore- known as vitamines, which are en- of them producers of the finest lamette valley where a bee keeper the use of irrigation water as a mum crops. gon Agricultural conege. It con- tirely lacking in sugar and the honey. Our - numerous small cannot successfully winter his supplemental factor is rapidly tains matter that is of value to common syrups, due to the high streams are lined with willows of bees, harvest the early crop of gaining favor among the large

VITH AMPLE LATE BEE PASTURE SALEM WESTERN OREGON FINDS IRRIGATION **DISTRICT WOULD BE A BEE PARADISE BOTH PRACTICABLE AND PROFITABLE**

Other Well Known Nectar Bearing Growths in Proper Seasons, and We Can Beat the World in the Production of Honey Here

Frank M. Alley, an employee ed sugar in the proportion of two in the freight office of the South- sugar to one of water by measure. ern Pacific, is the best posted man This is best fed to the bees in Octin Salem on bees. He could write ober and should be given within a book about bees. He has con- the hive preferably at night.

tributed to the last five annual In certain favored localities. Slogan numbers of The Statesman, there is no summer problem for and he told the Slogan editor yes-

this section a bee paradise. The with an abundance of fire weed culture. fruit growers, must realize more Pink, etc.,) which is a producer valley averages 44 inches, for the ity and amount of his product, and more fully the necessity of of what is considered one of the Umpqua 35 inches and for the within certain limits, at his will. providing bees with late bee pas- finest honeys in the world. It is Rogue river valley 26 inches. ture, with white, alsike and sweet a pure almost white honey of the clover, and the other well known most delicious flavor and brings

nectar bearing growths. Where the highest price in the markets those valleys if it were evenly disin the world-it will be a veritable bee paradise. **Difference** in Wintering

Mr. Alley accentuates the differfailed. ence in favor of the Willamette May Move the Bees.

valley over the east, and most Fortunately, it is an ill wind June other bee sections. in getting bees that blows nobody good, and while July through the winter. This is a

tively.

very easy matter here, compara-

Give Them Plenty of White, Alsike and Sweet Clover, and Experiments Covering a Seven Year Period Demonstrate That Irrigation Adds an Average of 65 Per Cent to All Crops in Western Oregon-Already Six Districts Covering 50,000 Acres, and Many Smaller Units Are in Operation-Diversified Farming Demands Irrigation Methods

> (By EDWARD T. BARBER) chemical elements of the soil and Irrigation methods are being the medium through which these adopted in western Oregon on a elements is carried to the parts of the plant. rapidly increasing scale.

All plants are greedy feeders. This is due to the transformaterday that the main requirement the reason of the accessibility of tion which has taken place from By supplying or withholding the is what it has been all along, late the mountains and the burned- grain growing to a more intensi- plant food at the proper time, debee pasture here, in order to make over waste lands, which is tovered fied and diversified form of agri- termined by the stage of development then in progress, the irrigagrowers here, and especially the (also called Elk weed and Indian The rainfall for the Willamette tion farmer determines the qual-

> A field of wheat has reached This is sufficient moisture to the stage where it should begin mature any of the crops grown in to head. A rain falls and supplies the plants with a super-abundance

there is plenty of late bee pasture, of the cities where it is offered tributed during the growing sea- of fresh feed with the result that this will be the best bee country for sale. This plant grows wild son. But such is not the case. The the plant continues growing straw. wherever timber land has been average at Salem for the past 25 Later it heads but the heads are burned over, hence its name of years for the growing crop smaller than they should be and fireweed, and all efforts to culti- months, April to October, inclu- the grain is of inferior quality. It vate it or propagate it have so far sive, is as follows: was all "luck." The rain came

ten days would have made a won-derful difference in the value of the crop. The irrigation farmer Also the abundance of spring efit from the calamity, and there This distribution of rainfall is just the right amount and at just

lible to control by irrigation meth-

ods. At any time after the pota-

toes set on the plant a lack of

moisture sufficient to check the

July and August are the import-

growth of the plant results in a



-This cut is used by courtesy of the Associated Industries, of Oregon.

Beginning about January 1, 1925, The Statesman will supplement its slogan articles on this page with a series of stories of Industrial Oregon from the pen of Mr. Edward T. Barber who is one of the most accomplished writers along these lines in the Pacific Northwest. Mr. Barber is a painstaking and careful investigator. His articles will be based upon the most reliable information obtainable and written from a constructive optimistic viewpoint. The following subjects will be included in these articles:

The Willamette Valley,-Its Physical, Historical, Geographical and General Features. Lumbering and Forest Products. Manufacturing Industries and Opportunities. Market at Home and Abroad. Fruit Growing-Conditions and Opportunities. Commercial Nut Growing. Poultry and Its Opportunities. General Agricultural Conditions and Opportunities. Labor Conditions. Irrigation. Educational and Religious Resources. Tourist Trails and Scenic Attractions. Taxation and Financial Conditions. General Living Conditions. Dairying, Milk, and Milk Products. Mineral Resources. Commerce. Hydro-Electric Development and Possibilities.



Irrigation Has Spread its Magic Wand Over a Million Acres of Productive Oregon Lands and They Blossom as a Rose-Willamette Valley Lands Yield 62 Per Cent Increase Under Irrigation

(By EDWARD T. BARBER) sidered the right amount for an The process of irrigation is old- acre of land. This was supposed er than recorded history. All the to flow for use from April to Ocgreat nations of the ancient world, tober, inclusive, as the irrigation Potatoes are especially suscep- Assyria, Babylon, Ninevah and the The amount of water actually prosperity-on irrigation. necessary to produce a maximum The prehistoric races of America left records of enormous irri- crop is termed the "duty of wa gation systems in the very sections ter." mass of second growth, rough and of the continent where we are to-Determining the "duty of water" day building irrigation dams and is the cause of much litigation ditches. where large corporations, or the Irrigation farming is scientific United States reclamation and production. It applies science to construct the works and the tim securing maximum production of comes for the operation of the sys the land The arid sections of our contiusers. The courts use as a hasie ent, wherever a sufficient water of fixing the "duty of water" the that irrigation increased the yield supply is to be found, offer the amount that can be beneficially most ideal conditions for irriga- used on that particular tract. The tion and the production of super amount of water necessary for maximum crops varies consider-

each stage of its life cycle.

The arid lands retain the neces

one who has a regard for his or her health, as well as being subjected. Also we find honey abundance of early pollen availa- his bees, then move them by auto Oregon, and especially of the Sal- erals which modern processes have m district:) so frequently eliminated, from Strange as it may seem, many forms of food, and especialem district:)

people do not fully understand the ly is this true in regard to sugar source of honey or just what and the syrups made from sugar. honey is. Yet the time is not far Why. Honey Differs in Color and in the past when man knew no Flavor

other sweet. At the present time The color and flavor of honey the average individual consumes depends on the plant from which about 60 pounds of sugar in a the bees collect the nectar. Foryear with a relative decrease in tunately the bees prefer to work the amount of honey eaten. on flowers which produce the bet-

Honey is first collected from ter grades of honey when such various flora by the bee in the flowers are available and are seform of a thin nectar. This neccreting nectar. The leading honey tar consists of about 60 per cent producing plants of Oregon all furof water and 40 per cent of nish honey of superior color and sugar. The sugar is chemically flavor. They are: clover, alfalfa, similar to cane sugar. Two chan- sweet clover and willowherb. As ges, however, take place in nectar a rule the darker honeys have a to form honey. In the first place slightly stronger flavor.

case.

Honey Not Adulterated

that one might almost say it nev-

(Continued on page 10)

Honey is so rarely adulterated

bees evaporate the bulk of the water, thus concentrating the solution and incidentally improving flavor. Secondly, a chemical change takes place similar to the process which goes on in the hummach after eating cane sugar. As a result the sugar is in a form which can be readily absorbed by the most particular digestive

Why Honey Is a Superior Food Honey is a food of superior value not only because it is so readily absorbed by the digestive system but for several other reasons. Not the least of these is the natural flavor brought from the flower itself which no other artificial

sweet can ever have.

temperatures to which they are different varieties producing an honey and incidentally build up ested in the development of contains most of the valuable min- ble many times in mid-winter, so truck a comparatively short disthat the feeding of artificial pol- tance to where he can pasture the

len in this section is an unheard mountain sides from July 1st till of thing. Next in order of its im- frost puts an end to the flow. portance in the spring is the blos-It is the practice of many Califsoming of the maples, and there ornia bee keepers to move their is no finer honey than that pro- bees many miles to the orange-

duced by the scrub trees known as groves and when that flow stops, vine maple. Closely following the move them a long distance to the maples we have an abundance of sages on the mountains and desshrubs and plants; one of the most erts. If they can successfully do valuable from a bee keepers' it, so can we, now that we have so standpoint being the shrub known many hard surfaced market roads as Scotch broom. While it is a leading in all directions in many worthless pest, it is generally cases to the mountains found in unused land and along selves road sides and waste places. This

A Bee Paradis

The following were among the

conclusions of Mr. Alley's article

of last year: "The question na-

turally comes up-if such a bee.

paradise exists, why has it not

been taken up before? This is a

(Continued on page 10)

plant is a legume, and, like all members of that valuable family of plants, is a source of much pollen and honey at a time when it is most needed to build up the col-

ony. It will produce both nectar and pollen for several weeks and is a never falling supply year after year.

er is. This is due to the fact that Feeding Problem beekeepers recognize the practice The greatest problem here, conwould only curtail their market DID YOU KNOW that Salem is the center of a potentially fronting the keeper of bees in this and furthermore that the pure section is the summer drought, food law forbids it. The consumand until such time as additional er often fears there is adulteranectar producing plants such as tion because the honey granulates the white and yellow sweet clover or is almost white. Yet if one get a start, it will be necessary to could secure honey from any one adopt a system of looking after of the above named honey plants your bees that will carry them with no nectar from any other over this period. It, therefore, replant the result would be practisolves itself into a question of cally water white honey in each keeping bees-the sweet clovers and Hungarian vetch, the fruit and the honey; besides building up the fertility of leaving them stores to carry them over the winter or providing them the soil with the legumes mentioned?

Honey contains two sugars (dex with a substitute in the form of a syrup made from white granulatintensified farming, such as berry and fruit growing, vegetable and truck farming. A better understanding of the

value of irrigation and the methknotty potatoes. ods of applying it will still further increase the employment of this ant months in potato growing, and vstem of farming.

number of farmers engaged in the

these are the two months of least The frrigation farmer becomes a rainfall in western Oregon. manufacturer, rather than a grow-Experiments by the Oregon Ager of food products. He must know ricultural college at Corvallis, carcertain facts, relative to the habried on over a 7-year-period show its of growth and development of each different product, which the of potatoes 100 bushels to the farmer depending upon rainfall acre; carrots increased 10 tons; does not know, or if he does know beans 6.94 bushels; beets 4.636 crops. it, the knowledge is of small value to him.

tons: clover 5.3 tons.

From other sources it is learn Every plant passes through cered that irrigation increased the tain stages of growth, just as evyield of strawberries 4 tons per ery animal on the farm passes acre and other berries in a like through different stages of develproportion opment and requires feeding and

The experiment station con care adapted to each stage, if al a rainy section are washed out by maximum development is secured. cludes that general irrigation in excessive rain and carried to the Moisture is the solvent of the the Willamette valley is not desirable or practicable, but that virgin soils of Oregon.

wherever water is available irriga-Irrigation laws and practices tion will be profitable for intense are practically the same in all our diversified farming operations. western states

The numerous streams in the A few irrigation terms defined valley present exceptionally fine here may be worth while. opportunity for securing irrigation water, either by direct pumpmeasured their water by the "mining from the streams or by reserer's inch." While this term advoir dams from, which the water mits of some variations in its may be conveyed by gravity to the meaning it generally means a confields.

stant stream of water having a A number of such systems are cross section of a square inch, a now in working order. In the fall of 4 inches in 16 feet, under Rogue River and Umpqua valley a head of 4 inches. Under the six different irrigation districts general custom of the old time irrigation a miner's inch was con-

(Continued on page 10)

The irrigator controls the fac- ably with the different soils and tors which enter into the growth conditions. "duty of and development of the plant at water" fixed by the court for one system may not apply, in any other system. tion company is ary chemical elements which in spreading the water over as much land as possible, for their profits Arid lands are the original are all from selling water rights on the lands within reach of their system.

The flow of streams is measured by the "second foot." means a cubic foot of water passing a given point in a second

time. A stream recorded as hav-All of the old time irrigators ing 1000 second feet means that 1000 cubic feet pass a given point in each second of time.

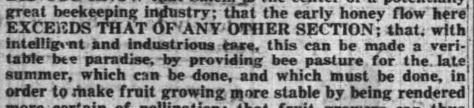
The contents of reservoirs is measured by "acre foot" units. This means enough water to cover an acre of land a foot deep.

From 21/2 to 3 acre feet are considered necessary for an irriga-

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more certain of pollination; that fruit growers can thus harvest three sure crops by providing bee pasture and



'. THIS WEEK'S SLOGAN

