ROGUE RIVER COURIER, GRANTS PASS, OREGON NOVEMBER 13, 1908.

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matter.

mercialism.

The principal feature of rejoicing

among republicans seems to be the

fact that Mr. Bryan has been de-

feated three times. The principles

involved seem to be of little concern.

They seem to lose sight of the

fact that Jesus Christ has been an

unpopular candidate for nearly two

thousand years, but is still a candi-

date, and will be until the princi-

ples for which he lived and died are

established in the hearts and lives

of the entire human race. W. J.

said that Mr. Bryan should not be

president, but let us remember that

this has been the fate of almost

ever lived. W. J. Bryan stands be-

fore the world to day as its greatest living statesman. He will be

known in history as the man who

did more to elevate American man-

hood than any other man of his

time. My posterity will always

point with pride to the fact that

their paternal ancestor stood by the

great Commoner in his valient fight

for the natural and constitutional

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INVESTIGATIONS TO The Future of Democracy Editor Courier-As Republican editors are making al kinds of pre-

of Great Practical Value

to Fruit Men.

The United States Weather Bureau is making investigations of various methods to protect fruit and other crops from frost. The following article, considerable of which relates to California, may suggest some good ideas to Josephine County fruit growers:

The problem of protection from frost may be considered under four sections, as follows:

Bryan may not be nominated again 1. The issuance of adequate frost for president, but the principles for warnings. which he has so faithfully and

2. A discussion of the physical process operative in the formation honestly contended will live as long as honesty remains a virtue and and dissipation of frost. 3. The construction of devices and

men are found who esteem human happiness greater than sordid comapparatus based upcon the principles enumerated in No. 2. Yes, a majority of those who

4. The intelligent use of these went to the polls and voted have devices so that a maximum efficiency may be obtained at the critical hour. In California frosts are found to occur under certain pressure condieverry truly great man that has tions.

A period of strong north winds followed by clear skies is a period of or no thorough circulation at such danger. Frost is essentially a prob- times. Helmholtz has shown that lem in air drainage and some knowledge of the movement of the air over may lie close to one another without the ground, or in other words, the mixing, and indeed this is known to local air circulation is essential for be the case, not only near the ground successful frost forecasting. The but even in free air. Doubtless herechief cause of cooling is undoubtedly in lies the explanation of the streakiradiation, and this is controlled to a large degree by the relative purity and chards which were apparently level; stillness of the air. When, therefore, and yet upon close inspection it was the lower air strata are quiet and dust found that although there was no ation wealth. No one of the next free, also vapor free, conditions are noticeable slope of the ground, there favorable for intense radiation, and were certain channels of air motion consequently rapid cooling of both and certain staguant zones. The frost vegetable fibre and the soil. All fruit streaks wers found to coincide with growers should carefully study the the stagnant areams. Much. however, weather conditions preceding frost in depends upon the nature of the radiattheir localities. The district fore ing surface. caster at San Francisco and observers at any Weather Bureau station will gladly receive suggestions in the matter of local air drainage and frost formation and will, so far as their time duction from one layer to another is permits, investigate and report upon local features.

Under the second heading, discussion of the physical processes involved in frost formation, we would call attention to the following ways of preventing the fall in temperature :

Adding heat. 22.

3. Adding both heat and water vapor

4. Venti'ation, or mixing of the air.

Irrigation, or use of water. 6. Use of heated water.

7. Use of screaus or covers, preventing loss of heat by radiation.

Spraying.

it may be none the less profitable to study the problem from a later AVOID FROST DAMAGE stage, namely, the period of the chilled fiber. While is not definitely known what action during frost causes the death of the cell tissues, whether it be a rupture of cell walls or a separation and withdrawal of water content, it would seem that we could not err in gearding the plant fiber from any strain due to rapid and unequal heating when in a chilled condition. Beginning before sourise, some screen or covering should be interposed between the fruit and the sun's rays. For the reasons given above it is also advisable to apply water. It may interest fruit growers to point out to them that the actual temperature of the air is probably of less importance in frost formation than the cooling of the plant surface due to radiation. Nearly all fruit growers now understand that after sunset, if there be no clouds present and but little motion of the air (though it is well to test this by watching the flow of smoke near the ground) the plant surface emits heat rapidly into space. The under surface of the foliage, of course, intercepts heat from the ground, and so we seldom find frost forming under a tree. The convective currents of the air are generally sluggish and there is, as a rule, little mixing of the air strata, layers of air of different temperatures ness of frost. We have examined or-

> The warming or the chilling of the ground has not much effect upon the air at a distance of 10 or 12 feet. That is to say, the rate of heat convery slow. Therefore it is not unusual on frosty nights to obtain readings of 32 degrees F. at the ground, while at six to 10 feet above the sround, the temperature may be 36 degrees or 38 degrees F.

Under the third head, viz., the construction of devices and apparatus for use in orchards, vineyards, gardens, etc., we believe that each local forecaster can contribute materally to successful work by examining in situs any device prought to his notice. It is suggested that he read up the history of the wire coal tbaskets, first used by Edward Copelv at Riverside, Cal., the use of oil by Evertt at Arlington; the application of hot water, THE man who appoints his breeches pocket as his treasurer and bookkeeper is a first cousin to the man in the nursery rhyme who attempted to accumulate water in his mother's sieve.

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All of the above processes can be first used by Meacham; the smudgfound explained in detail in publica- machines of Hall, Hammond and tions of the Weather Bureau. The others; the oil pots and the small, action of water is any of its forms: cheap, sheet iron stoves in which whether solid, as ice or frost fluid, briquettes are burned and which are as water or gaseous, as water vapor, now on the market. The methods of

against the oppressions of corporgeneration will ever feel glad that his father voted for Mr. Taft. We democrats are going to give President Taft our loyal support in the execution of his official duties, but we want it understood that we make no sacrifice of principle. We believe that this government should be run in the interest of all

the people, and not in the interest of the Rockerfelers, Morgans, We have Hills and Harrimans. been fighting for that which everyone of well balanced mind knows to be right and we expect to live and die in the good work. We know that we are in the best of company. The solid South, the home of true Americanism, is democratic to the core, and will remain so until the final triumph of

right over might. STEPHEN JEWELL

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dictions as to the future of the democraticparty, it may not be amiss for Suggestions Which May Soon Be one of the party to help out in the

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as mercury will surely destroy the Theoretically, it is possible by the availability of the method. In Calisense of smell and completely derange application of sufficient water to pre- fornia the diversity of interest is so the whole system when entering it vent injory by frost. As the plant great that no general recommenda-TRUCK AND DELIVERY through the mucous surfaces. Such cools, owing to radiation and an in- tion, can be given, and in each loarticles should never be used except draft of cold air, the vapor present cality the local forecister should fit prescriptions from reputable condens s, giving free a large quan- the method to the fruit. In the physicians, as the damage they will tity of heat, something like 600 Riverside, Redlands, Colton section do is ten fold to the good you can post calories; and if the water turns to the orange naturally claims first atsibly derive from them. Hall's Ca. frost, more beat is set free, about 800 tention; at San Diego, both lemons tarth Cure, manufactured by F. J. calories. If, for example, in an ordi- and oranges; in the foothills of the Cheney & Co., Toledo, O., contains nary rain gauge enough frost has form- San Joaquin, oranges; in the valleys. no mercury and is taken internally, ed to weigh, when melted, about an the raisin vines in the spring; in the acting directly upon the blood and ounce, then the latent heat of conden- Sacramento valley, the garden truck ; mucous surfaces of the system. In sation is approximately 908 times 680, in the bay valleys, the almonds baying Hall's Catarrh Cure be sure or 617,440 calories, enough to ra'se the against the late spring frosts; and in you get the gennine. It is taken in temperature of the air at freezing 4 Northern California, the deciduous ternally and made in Toledo, O , by degrees over a space of 10 feet square fruits. In all directions there is room

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