



7 a.m., 12:50 p.m., 5:45 p.m.

UNION

PACIFIC

we all could realize what it means to us as a people to keep our surroundings clean and pure. I assure you it is worthy our consideration and atten-I read a synopsis of a speech that was made here the other day, by a reverend gentleman, before the Young Men's Christian association.

NEXT YEAR'S FRUIT CROP-

It is said that the time to make hay is while the sun shines, and it is true for the most part. It is equally true that the time to make the next year's fruit crop is largely while the sun is shining this summer, writes H. E. Van Deman in Green's Fruit Grower. In the case of almost any fruit we can think of the fruit buds must be formed the year before the crop is produced. On these buds de pends the success or failure of the crop other things may assist or interfere in its development, but there can be no fruit of any kind, nor in the smallest amount, unless the fruit buds are first formed. The blooming and growth is merely the unfolding and future de-velopment of what had been deter-

velopment of what had been deter-mined and begun the previous year. In watching the opening of a peach blossom we can see that all the organs necessary to the formation of a peach are there. They were folded neatly, each in its place, and covered by the brown scales that jap over each other in the most secure and delicate fashion. The same is true of the apple; although there are several embryo blossoms in each bud instead of one. The fruit buds of the strawberry are composed of sev-eral clusters of individual buds, which only need the warming influences of early spring to cause them to expand into trusses of flowers. We might think into trusses of flowers. We might mink the clusters of grape blooms, coming as they do on the new wood of the current year's growth, would not have been en-closed in the buds from which they grew; but this is true. They were all there before the leaves dropped the fall before, although in a very minute form.

there before the leaves dropped the fail before, although in a very minute form. And thus, we might go through almost the whole list of fruits. In addition of the embryo fruits that must be laid up for the next year's crop there must be enough vital energy stored in the tree or plant to carry it well into or through the trying period of fruit production. As a matter of course, there must be plant food in the soil upon which its roots can lay hold, and water to dissoive it, or the whole effort for a crop will result in failure; but the fruit must have had its origin the year before. No kind of treatment can make a fruit bud out of a mere growth bud that has come to maturity, so far as I have ever been able to ob-serve of learn from others. But, grow-ing buds may be so fed or stimulated that they will form the embryonic fruit within them. If they have the right con-ditions at the proper time. Each tree ditions at the proper time. Each tree or plant must first attain its normal stage of development, which we usually term its bearing age, before it will set fruit buds, and this is exceedingly va-riable. It is often subject to outside in-fluences, and this is where the skill of

fluences, and this is where the skill of the fruitgrower, may be shown and made to be of practical value. Grafting, budding, dwarfing, manur-ing, spraying and tilling the soil, each in its particular way, is a part of the art of fruit growing. We not only deter mine and control the variety by the various methods of budding and graft-ing, but we often hasten the time of fruit hearing as well. Dwarfing, which is putting the desired tree on a slow growing root, has a most potent influgrowing root, has a most potent influ-ence in the matter of early bearing, as almost everyone knows. Manuring ence in the matter of early bearing, as almost everyone knows. Manuring furnishes food from which the whole structure is materially fed and strengthened. Plant food is more than alr and water. It is composed of various elements of fertility, such as potash, phosphoric acid and potash, and be-



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