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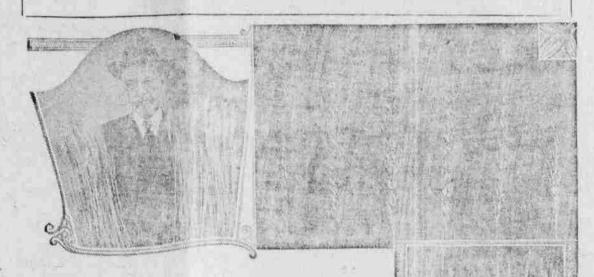
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FARM ADVISER AIDS GROWERS



Hardy W. Campbell. Farm Adviser for the Southern Pacific Company, and grain showing the efficacy of the principles of tillage he advocates. Above, at right, the four heads in the center were grown according to Campbell's plan; the other two by the ordinary method.

Principles of Tillage to Increase Yields Explained by S. P. Farm Adviser.

The same principles of tilings, in preparation of land for crops and subsequent cultivation, which have proven so encessful in raising grain crops on Western semiarid for acting the sometimes, but not lands without irrigation, are proving successful for crops raised under irrigation and for orchards and vineyards, according to Hardy W. Campbell, Farm Advisor for the surface by leveling." Campbell, Farm Adviser for the mays Campbell. Then arrange for Southern Pacific Company. Camp tributing in such a mixteer that bell has inspected this season a water may not only be evenly ap-number of new orchards and vine-piled over the whole surface but yards in California, Oregon, Ne in as short a time as possible. In yards in California, Oregon, Ne-vada, Arizona, and New Mexico.

Campbell is the man who evolved what is now called the "Campbell System of Dry Farming." Campbell, however, objects to the word "dry" and insists that the princi-ples used in his present plan apply to all kinds of farming, with or without I igation, as well as under a much lower rainfall than even now is commonly conceded neces-sary for successful crops. Camp-bell emphasizes the importance of proper preparation of the scod-bed and sufficient intelligent cultivation

Campbell arranged to address the Nebraska Bankers Association at Omaha, September 22 on the sub-ject of "Soil Fertility by Utility of Soil Water," and to discuss the same subject before the Minnesota Bankers' Association at Minneapolis. On his return from these con-ventions he will stop at Yuma. Arizona, to investigate conditions

interesting evidence of the direct effect of properly prepared land-was recently received by Campbell from a Metropolis, Nevada, grain-field prepared under his direction. was recently received by Campbell a condition so favorable that not from a Metropolis, Nevada, grain only the veaker sets may q ickly only the veaker sets may q ickly and makes a finer and much more field prepared under his direction. take root and grow visorously in the form of three stools of wheat a fixed of withering and dying, but means much to the tree, as a brailty, uniform growth may be obtained the first year, which means much to the tree, as a brailty, uniform growth may be obtained the first year, which means much to the tree, as a brailty and anset in the first year, which means much to the root sone and a crusting and driften profit that was liberally supplied with profit through well planned and timely work. This crop was raised without irrisation, but was prepared for by summer tiliage in 1201 and grown this year.

More evidence of what cultivation fo assist in early summer tiling for wheat establis ing the ideal root had said barley, and the precise. Which should be both fine and fairness of time in doing it.

tion of a growing crop means was which should be both fire and fairsent to Campbell by A. B. Shield.

If Delano, Kern County, California,
of Delano, Kern County, California,
object is to continually carry the
proper quantity of both air and
stool grown on Shield, ranch. This
stool had simple space and was
cultivated while growing no fertile.

The season. Under this condition
with the high percentage of moistterm or levinging below and. izers or irritation being used. The ure held at the two of the firm will. averaging 78 grains each or alightly, then, there will be a liberal de calopaveraging 78 grains each or nlightly over 3100 grains from one stool. Such results, says Campbell simply mean that under cartain phrasical conditions brought about by the right kind of tillsue at the proper time, very much more grain, fruit or vegetables may be grown per acre than is commonly on the stool more about the commonly of the field, before soft than the commonly of the stool more develop and otherwise obtained. per acre than is commonly ob-tained. The usual query is "Does to Much can be said to pay?" to which Campbell replies and cultivation after at

Campbell recently inspected a shout the root some must be moist partly number of new orchards and vine-sparts in the noutharn and cantral portions of California to study methods and principles commonly practiced in preparing the land and the after care in irritation and cultivation. One of these inspections was of a 4000 zero peach moisture in the soil following irritors are tied up with the territors and three-year-old trees belonging to the California Packing Corporation and located east of Merced, Calif. What

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E. Benson, Pastor

All are welcome.

other words establish an even surface with reason bly short laterals.
Too much water in the soil beceath
some trees or too limits for others is
detrimental, asmilly Armin, the low
er places, especially in heavy soils
gather more water, breaking the
surface wet longer and frequently
delaying timely cultivation, and not
infrequently causing the higher
spots to lose much of its niready
involved for the firm to long to growing massen. The ideal condispots to lose much of its niready

growing meason. The ideal condispots to lose much of its niready tion to furnish this ir is to cover short supply. When the trees of the firm soil with a granular mulch, when reach the bearing period, the neither too fine nor too coarse. To profit is increased or decreased in obtain this ideal mulch, the culti-hoth quantity and quality of the vation much be lose when the soil eron. Both of these results are is moint—not wet or dry. The governed by the amount of fertil-lossened soil soon dries, leaving thy resulting from soil condition in the firm soil moist to the top. This which the ser cent of moisture and is numbered therein, especially during the winner weather, is a big factor. The ability is supply this any to go over the field a second desired moisture in proper quantities the entire season through each year, is the first con ide ation.

"The next question is the perfect root bed. This should be supplied liberally with available plant food evenly distributed, so that when its trees or vines are set, there is a condition so fuverable that not only the veaker sets may quickly and makes a liner and much more

just as vital. There are namerous records of large yields of wheat as blub in 40 to 60 bushels r grown on correctly summer tilled land, where nearby fields, press-d and sowed under the mor mon plan of 'any old way,' yielded

very posity or nothing at all."
The Southern Pacific Land Department "Bulletin No. 10" deals mitte explicitly with questions of increased fortility by tillage. letin No. 12 also explains in derail than the summer tilling question as ap-ir idled to the coust country. One cost by letter or personal applica-ation tion to Hardy W. Campbell, 981 pay?" to which Campbell replies and cultivation after s. but Southern Pacific Building, Sar very emphatically in the affirms to be briof, care should be taken Prencisco. A Bulletix is now untitle.

Campbell recently inspected a shoul the results, the soil in and irrivation of orchar's and vine-

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