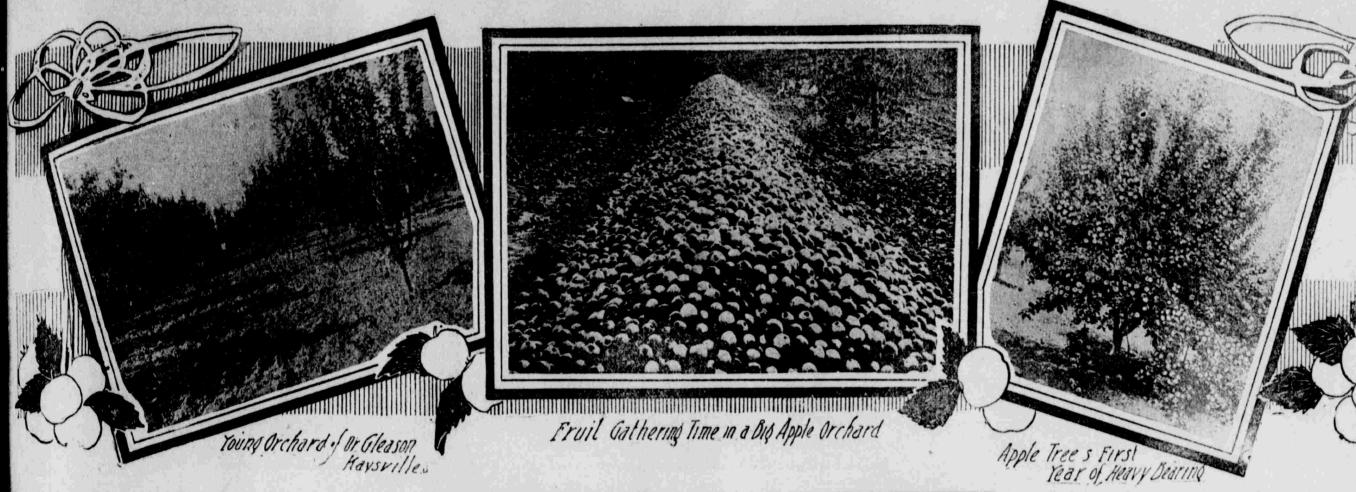
A Banner Year for Fruit Growing in Utah.



fruit crop are not yet available, sufficient data are at hand to show that this has been by far ah Except in a few remote sec- ers cannot obtain. es, where late spring frosts affected were broken. The canneries of ther, Boxelder, Davis, Morgan and ah countles, as well as the shipping uses in the principal fruit centers, we handled more fruit than at any in their history, and fruit has cheaper and more plentiful in the er markets of the state than ever re. For the first time in the hisof Salt Lake county its orchardists are sent fruit out of the state in carbis. Heretofore Salt Lake City us supplied a market for all the fruit move in this county, and much of anty and the north end of Utah enty. But this year the city markets | duced. ee over supplied, and a few of the enty fruit growers joined together in tipping out of the state three car loads d fine peaches, which brought the mwers twice the returns they were red in the local market. A little ore of such enterprise would dispose all the surplus fruit in the state and tter prices could be had at home.

Boxelder, Weber and Utah counties, we for some years exported large ntities of fruit, but this year eclipsall previous records. Grand county kept up its export record, while vis. Sanpete. Cache and Salt Lake mentered the export list, and prosare that shipments will increase pidly, as many young orchards dome into bearing in the near fumin all parts of the state.

Greevmen report greater sales of bes and more extensive planting of mg orchards than in any other year, il indications do not fail, fruit ming will soon become one of the industries of the state, ranking with but growing as a wealth producing stion, as indeed it should.

When the greater profitableness of atgrowing over most other farm puris taken into consideration, with afact that the soil, climatic and other itions of Utah are specially famble to fruit production, there is no vent reason why this industry aid not become of as much importrelatively as it is in the Golden where the products of its oris and vineyards enrich its farmers tune of millions every year.

T GROWERS ASSOCIATIONS. th the great increase of orchards in state, the need of fruit growers' misations is becoming more urgent y year. Until growers unite toer in packing, shipping and sellthe product of their orchards they be at the mercy of shippers and demen who will naturally absorb greater part of the profits. The market conditions during the past on emphasize the need of better serketing conditions to make fruit maing the success its importance jusfies. Fine peaches were sold in Salt ke as low as 15 cents a case. A inter of growers, dissatisfied with is condition, got together and sent a few car loads to the eastern arket and realized from 40 to 60 cents case net. In the Hood river country, son, where the best apples in Amerare grown, three years ago, grow-Were getting 75 to 80 cents for a tabel box of their choicest apples. alt growers were induced to organa union or association for the uniim packing of their fruit and selling set to the eastern market in carload In three years the price rose to ar is a box, paid at the nearest almad station. The association has a Anager and assistant manager, who ploy packers to put up all the alt grown by the association memis in uniform style, and nothing ut first class fruit 's shipped. The growdo not pack their own fruit, the union oes it for them. Eastern buyers preto purchase from the association, as whole output is guaranteed to be form and up to sample. The same fult is sold in New York at from \$3.50 th per box, and the people cannot at these prices.

n tot only raised the price of choice pittenberg apples from 85 cents per his year, but it saved its members year \$7,500 in boxes, paper and materials.

vers prefer to deal through unions, are willing to pay better prices, or the reason that they are sure of a tm pack, and feel that they are ing business with a business conthat will make good, a feeling not strally entertained toward the indi-dual fruit grower. The union has

HOUGH statistics of this year's | cities of the United States, and can thus place the fruit where it is in most demand. It has also the further advantage of learning the reliability of buybe best fruit season in the history of ers, information the individual grow-

Only those fruit growers who have fruit crep, all records of the indus- | had business training and adaptability to market their fruit to the best advantage are making a thorough success of this industry. Other growers are handicapped and lose 25 to 50 per cent of the possibe returns from their orchards every season. Co-operative selling, under efficient management, as practised both in the east and west. would enable all growers to realize 90 to 95 per cent of the proceeds from the products of their orchards. With better and more certain marketing facilities. Utah orchardists would be encouraged to take better care of their at grown in the south end of Davis | fruit plantations, and better fruit in much greater quantities would be pro-

When growers are thoroughly organized into co-operative shipping associations, they can control the situation; they can ship in carload lots and take advantage of different markets. Much can be saved by this method, Small shippers are hampered in having to pay high express rates which reduce their profits, as they are usually obliged to send their products to small markets, which are often glutted and over supplied.

NUT GROWING IN UTAH.

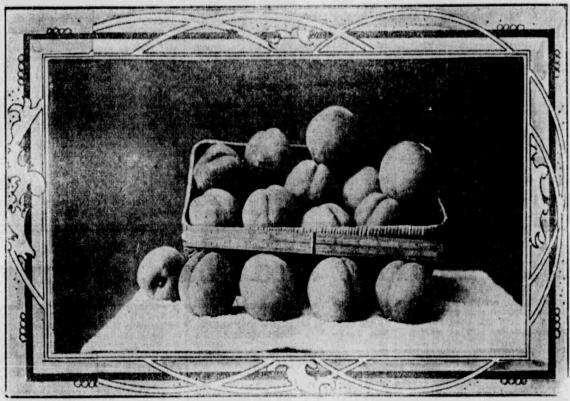
On every highway in the state, bordering every irrigating ditch, and marking the division between neighboring farms, also in nearly every farmyard in the state, will be found cottonwood, poplar and other practically useless trees, cumbering the ground and occupying valuable space without returning any profit to the owner. It is safe to figure that were all the poplars and cottonwoods grown in this state supplanted by nut bearing trees, the annual returns therefrom would enrich the state by tens of thousands of doilars. The soil and climate of this state are well adapted to the growing of nuts of various kinds. Walnuts, chestnuts, almonds, filberts and pecans can be grown very successfully. Walnuts and almonds, especially, thrive in nearly every section of the state. The yields from a well grown nut tree are enormous, and will increase for many years after it begins to bear. An in stance is given by Thomas Judd, president of the state board of horticulture, in its last biennial report, of a English walnut 13 years ago in his

Santa Clara farmer planting an dooryard. The tree which grew therefrom is now a fine specimen of its kind, and this year yielded \$24 worth of marketable nuts. The owner remarked that if he had 100 such trees, they would be more profitable to him than 100 good cows. As the returns quoted are practically all profit, the claim of comparative value is not altogether an idle one, as it takes a pretty good cow to make an annual net return of \$24 above cost of feed and care. There is much farm land in Weber, Davis, Boxelder, Salt Lake and Utah counties. worth from \$200 to \$500 an acre, which is encumbered with useless trees and which, if planted to walnuts or almonds, would pay good interest on this high priced land. The chief drawback in planting nut trees is the comparatively long wait between planting and harvest returns. A peach tree or a grapevine begins to make returns in three years, but a nut tree will not do much under eight to ten years, but will make good very soon after coming into fruitfulness for all the years of wait-

There is but one good reason for planting poplars, cottonwoods, boxelders and other useless trees about the farm house or bordering the roadways, and that is for shade. For this, however, they do not excel the walnut, which makes a stately shade tree, while its beautiful and symmetrical form is an ornament to the landscape, far surpassing in beauty the other trees referred to. It is therefore a waste of effort to continue the planting of these useless and less ornamental trees upon the farm, or around the farmhouse, if one has suitable soil for growing nut trees. The more valuable nut trees on to the magnificent figure secured | fact, if the farmer is in no hurry he trees to grow and in due time, if his soil and location are right, he will have trees which will yield him handsome profits as long as he lives, and

> greatly increase the value of his farm. UNDEVELOPED FIELDS.

Besides nutgrowing, among other less developed horticultural fields in this state, is grape culture. Despite freat advantage over the individual the fact that many localities in this Srower, as it can get in touch with state are specially adapted to the principal buyers in all the leading growing of grapes to perfection, car-



A NEW PEACH PROPAGATED IN UTAH.

ed in large quantities every season, many coming from Iowa, Indiana and New York. The supply of Utah grown grapes is so infinitesimal that it cuts ittle figure in the market. This condition cannot be accounted for, except upon the theory that grape culture is thought to involve more labor and care than other lines of horticulture. This is certainly a mistaken notion, as a vineyard does not at any time require so much attention as a field of strawberries or raspberries, This branch of the fruit industry is ling, while in harvesting berries every

coads of this popular fruit are imported | while the returns from the same area | not only very profitable, but is one of every week into this market from Call- of ground more nearly approach those he most pleasant to follow. The refornia during the entire grape season. from a berry plantation than any Eastern hardy grapes are also import- other crop. Except in Dixie, the sea- verk of caring for a vineyard is not son in Utah is too short to grow all the California varieties, and those which do thrive will have to be covered for winter protection in the greater part of the state. But as this protection is supplied by a light layer of earth, this little extra labor need not be a bar to the extensive growing of choice grapes in all but the extremely cold counties of the state.

The hardy grapes flourish without this winter protection.

urns are sure every year, and the so arduous as many other lines of husbandry. It has many advantages over growing large fruits. Once planted in congenial surroundings and properly cared for, a vine will live a lifetime. being comparatively free from disease and insect pests in this state; returns may be had two or three years from planting, and a full crop after the third or fourth year may be looked for; harvesting is easy work, a basket is gathered in little time with little hand-

one must be handled separately. An- ; Kane, Garfield, Wayne and Washingother great advantage which attaches ton. Dixie raisine, especially could be to grape growing, especially significant | made to return to Washington county ought to be sufficient incentive to more | ted for growing. with vineyards, adding thousands to | tion. Utah's wealth.

HOME CANNERIES.

Canneries in the fruit growing centers of the state are doing much to advance the fruit interests of Utah. They have provided a ready market for surplus fruit, as well as vegetables, such as peas, beans, corn, tomatoes and asparagus. Wherever located these commercial canneries have brought prosperity to the people, very materially increased the value of farm holdings and furnished remunerative employment for all surplus labor. A cannery is projected for Salt Lake

county, and a number were established in Utah county this year. All have every promise of success.

In many sections of the state, too

remote from the railroad to think of marketing the fresh fruit, as in San Juan, Kane, Wayne, Garfield, Uintah and Grand counties, small home canneries could be established to take care of the surplus fruit, that which is not consumed by the farmers' families. Outfits costing from \$10 up to \$100 can be put in by individual farmers and they can be manipulated to take care of an immense quantity of fruit and vegetables. A few such domestic canneries would supply the home market and that of the nearby mining camps with the finest products of the orchard and garden. The farmers would have the advantage of the freight rates and could make the business a success from the start, if they put up a good article. The safer way would, of course, be to start on a small scale and build up the business, as experience was gained. The grower could import the cans, and labels, and with the cheap outfits now to be had, he could put up, with a little extra care, a better article than that put up by the large commercial canneries. In a few years, by painstaking care, the farmer could work up such a reputation that his products would be Where much fruit and garden truck,

such as tomatoes, corn, asparagus, beans, etc., are grown it would pay to establish a larger canning factory, Not counting the boiler and the building for the plant, an output will cost from \$75 to \$1,000, according to the capacity desired. The \$75 plant has a capacity of 2,000 three-pound cans per day. The \$1,000 outfit has a capacity of 25,000 cans per day. These figures are prices at eastern factory and do not, as before stated, include steam boller or the factory building.

nor the freight from the manufactory. FRUIT DRYING AND CURING.

Where fruit cannot be profitably marketed in its fresh state, owing to distance to markets, it can be sun tised the roots form a network near dried or evaporated, and handled at a the surface and soon dry out in times profit in this manner, the freight then of drouth, whereas the deep rooted will not cut much of a figure. For trees will pull through an ordinary sun drying little in the way of an outfit is needed, but for evaporating suitable outfits must be had. A family evaporator can be had for \$3.50 and

That there is a ready market for first class dried fruit is evidenced by the fact that all the grocery stores of the state carry loads of imported dried fruits, Apricots, peaches, raisins and prunes from California, and apples from the east are retailed in Utah at from 121/2 to 15 cents a pound, while the cured products of Utah orchards are seldom seen. It has been demonstrated times without number that dried fruit can be put up in Utah of as good a quality as the imported, and if it pays California and eastern growers to ship the product here and pay middlemen's profits on their dried fruits, Utah growers can do it, and by supplying their own market can obtain better prices, as they will have the freight margin in their favor, Utah is adapted to the growing of the choicest fruits, and with intelligent effort in growing the best varieties, drying, curing and packing the same, this state should be an exporter of dry fruits, not the heavy importer it now

Dried and evaporated fruits could be made a source of great profit in the Georgia, who pronounced its quality warm, sunny countles of San Juan, the very best,

in and Utah, is that half the water other | alone the neat sum of \$100,000 a year, farea crops require is sufficient to ma- to say nothing of other fruits for ture grapes. This consideration alone | which that section is particularly fit-

extensive vineyard planting. Grapes | Like beet growing in the sugar fachave been grown on some of Utah's tory sections of this and neighboring hillsides without any irrigation and states, the growing and evaporating with very little cultivation. In some of fruit in a commercial way will furof the old world countries grapes are | nish employment for all the members grown on the steep and barren hill- of the family, in a time too, for the sides, where there is so little soil that | most part, when the children are not a hole is scooped out and soil carried in school. This industry can be made in baskets and a place made to plant | as profitable in the remote sections of the vine. With a little added moisture | the state already named as is the beet the hillsides of Utah could be covered growing industry in the northern sec-

So great has been the season's fruit crop in some sections of the state that thousands of bushels of the choicest product of the orchard was allowed to go to waste for want of some means to care for it. This is nearly becoming an annual occurrence, and something should certainly be done in every community to care for this fruit and stop its wanton waste. This can be done by the farmers putting in home canning outfits or by drying the fruit and putting it up in the style demanded by the trade.

In New York state the best apples are be led and sold direct from the orcha. windfalls, culls and wormy fruit are sold to the large evaporating plants, which put up everything which will pass inspection in dried fruits, while the trimmings, worms, parings, etc., are sent to the cider mills and jelly factories.

CULTIVATION VS. IRRIGATION. Dr. Sumner Gleason of Kaysville. Davis county, has made a study of Utah horticultural conditions, with a view to determine the relative importance of irrigation and cultivation as they relate to fruit production. He has tried all methods from intencive cultivation without irrigation to copious irrigations without cultivation, and has come to the conclusion that fruit trees do better with no water whatever (other than the natural rainfall) when cultivated thoroughly, than they do when watered freely with little or no cultivation. Mr. Gleason is at present conducting a four acre intensely cultivated orchard and nursery combined, growing nursery stock between the orchard rows. His 6year-old orchard, intensely cultivated, but grown with little irrigation water, a part of which is illustrated on this page, is in a most thifty condition, comparing favorably with orchards irrigated every week or 10 days. He is experimenting with 125 varieties of fruits. His orchard is irrigated but two or three times annually. The first water is applied about the middle of July, by which time the winter noisture is about exhausted. He waters again a month later, with a third irrigation for late fruit. As soon as possible after watering the irrigating furrows are filled in with the cultivator to prevent evaporation. Cultivation in the spring begins as soon as the ground can be handled without puddling, and is continued every 10 days until the fruit weighs the branches down to the ground. This treatment causes the roots to penetrate deeper in their search for moisture, finding also more plant food. When frequent surface irrigation is prac-

As shown in the illustration, Dr. Gleason believes in starting his orch. ard close to the ground and keeping the trees low. The head is started at about 18 Inches, and the trees are kept under eight feet high by careful pruning. This greatly lessens the labor of gathering the fruit, all of which can be picked without the use of ladders. Another equalty or perhaps more important advantage is that the winds will have very little effect upon a low tree; properly pruned, The recent gale that visited Davis county did little or no damage in Dr. Gleason's orchard, except to one tree, which had been allowed to grow tall, without much pruning, it was literally torn to pieces by the wind,

Dr. Gleason is also interested in the propagation of new fruits. He has now under trial a very promising new peach, the "Early Elberta," it is a seedling of the famous "queen of the market," but one week earlier in ripening. It is similar in form of tree and size of fruit to its parent, but has a finer grain, higher color, smoother skin and better flavor. Specimens were sent to J. H. Hale, the noted peach grower of Connecticut and

NEEDED AGRICULTURAL REVIVAL

Intelligent Methods of Husbandry Augment Earning Power and Prosperity of the Farmer

is generally recognized. The condition of the nation would be neither politically nor economicaly sound, the New York Tribune editor holds, if the population were so congested in the cities as to destroy the reasonable balance of conservatism and radicalism, put our government at the mercy of the restless, unrooted native and foreign elements which congregate in industrial centers, and leave these centers without the adequate agricultural background on which their healthy life must depend. The Tribune editor seems to think with many other strong thinkers that the nation needs strong recruits from the farm to carry on the great work of the day in all lines of political and economic activity. There is much misplaced sorrow, he continues, over the drift from the farm. We want a drift from the farm in just the measure that the farm overflows with men and women needed elsewhere. But we also want the farm to continue to develop strong, intelligent people and to hold its own as an attractive field for a fair proportion of them. How it can be made to do this is the problem. Some have thought to do it by rural free delivery, telephones and other appliances to make the farmer contented with an approach to the convenience of life in cities. The true solution is not, however, palliation. It does not consist in making young men and women think they are having as good a time as people in the city, but in making it possible for them to earn more than they could in the city. Prof. Knapp, who has done so much to convert the boll wee. vil from a curse to a blessing in some southern states, put the point squarely in his address the other day before the Southern Educational conference nt Lexington, Ky., when he said that rural depopulation would continue as long as the mechanic's productive

There is the problem. The old fashioned farmer may think the solution hopeless, but Prof. Knapp shows that | We can do as much, and the educa- ments.

power was five times that of the farm

The desirability of maintaining it is perfectly easy if our people will tional conferences and the education a prosperous and intelligent ru- only wake up to the possibilities of in- boards can perform no more worthy ral population in this country | telligent and progressive cultivation of | service | than to promote a campaign the soil. He declares that agriculture yields each farm laborer in Vermont \$417, in Iowa, \$1,088, in South Carolina \$147, in North Carolina \$159, in Alabama \$150. Only in Iowa is the farm laborer's productive power equal to that of the mechanic and that is not because of superior natural productiveness of the soil-for. in spite of its richness, great care must be given to drainage in Iowa -but because of more intelligent cultivation. In Iowa there are four horses to one man working on the farm; in South Carolina one mule to every two workers. The Iowan's livestock is worth \$1,214 and his farm implements \$253. The Carolinian's livestock is worth \$134 and his implements \$43. The profit of farming is in the large crop secured by the extra labor beyond what will produce an average crop. It is the first bale of cotton or the first 20 bushels of wheat to the acre which costs, just as it is the first chair from the factory. Statistics show that with cotton at 7 cents the man who raises haif a bale actually losses while he makes an increasing profit as he pushes his crop from one to two bales, as he can easily do by getting good seed and giving good tillage. The Iowa farmer puts five times as much power on his plough as the Carolinian, and he gets, not five, but eight times

Dr. Knapp says that, with due allowance for short crops and failures. "the south can "make a gain of 500 per cent in productiveness "in the next ten years." What is true of the south is true in only a less degree of the whole country. Good seed, more power and less hand work, more thorough culture. more care to meet markets in the selection of crops and the packing of products-in short, the bringing to the Such Instruction is given the students the alert manufacturer-would at least | in farming than can be done in any double the returns from farming, even in Europe and Canada on this side of the water have set us an example in

substituting prosperity for depression.

cause it has much to lose from bad government. Utah, with its educational forces, should be a leader in this movement for better and more intelligent husbandry. It has too many half tilled fields and too many farmers who wonder if farming is worth while, simply because they do not really know how to With the educational impetus given griculture in some of the higher schools of the state, the business of farming should become the most prosperous vocation in Utah. As shown above, the most potent reason for

for better farming in every state of the

Union. It would be an educational and

patriotic, as well as an economic, cam-

paign, for a fat land with a wealthy

agricultural population means an intel-

ligent community, able and willing to

support good schools, conservative and

faithful to the duties of citizenship, be-

young men of ability leaving the farm is that other lines of endeavor offer better remuneration, with better opportunities for mental growth and advancement, which this affords. Given plenty of employment on the farm, with hours of labor regulated on business principles, and the opportunity to earn as much on the farm as elsewhere, few boys and men would leave the farm for the store, mine, workshop or railroad. With the attractions of good pay and less drudgery, the movement would rather be

from the city to the farm. The Utah agricultural college and the Brigham Young college at Logan, also the Brigham Young university at Provo, have large classes in agriculture, and are doing much a exalt farming to a higher plane, and to augment the earning power of the farmer. farm of the spirit and intelligence of as will enable them to do better other legitimate line of business. With in our most advanced states. Denmark | the opportunities now offered in many advanced agricultural lines, such as dry farming, fruit growing, animal revolutionizing their agriculture and husbandry and sugar beet raising, few businesses offer more alluring induce-