DESERET EVENING NEWS SATURDAY DECEMBER 15 1906

State's Bumper Wheat Crop and New Dry Farming Era erity that forebodes good been limited has also added to this ers ahead, and the full dinner glutting of the home market. At load-This year Utah broke all ing stations good wheat has, been sold ords just as she broke the at from 45 to 55 cents per bushel, net to all other lines from mining the producer. Wheat damaged by the t to football victories. rain to such an extent as to be unfit

the yield for 1906 is a million and a for milling purposes brought 39 to 40 shels better than the yield for | cents a bushel. Of spoiled wheat there was a good The total runs up this fall to inst 4,500,000 for last year. deal this year. This was because of the fall wheat is sown on new unexpected and unprecedented rains farms this year to give that broke in extensive areas over the a vast increase in another state right in the heart of the harvest rege era of Utah as a great season. In this country no provision

instead of a great desert has been made for heavy storms during prigated oases, is at hand. | harvest and a great deal of wheat was nve and three quarter | soaked in the shock. A following period bushels raised this year of warm weather sprouted a good deal came from irrigated of this wheat, making it unfit for millthe marvel of the sit- ing. Probably between 20 and 30 per not the wheat from the land | cent of the total crop was damaged in eason ago was the home of this way. and jack rabbit, is this year The problem of marketing the damest, best, and most demanded

aged wheat, fit only for feed, was made difficult by the absence of hogs in any To the general reader it is good news number. Had the stock yards been in that the price of wheat is falling. Utah ful operation, and a demand thus

have brought. not only the largest yield, but the best in quality. At that time the fields were in splendid condition the season well

ty as any that ever waved over a the first cloud appeared on the hori-

for plowing and seeding and the largcoming springtime to show Utah still further what her possibilities as a grain state can be made.

The contribution of the season to knowledge of dry farming has been enormous. Its extent will never be known until it is reaped into dollars in the years to come, and among those who have followed the science there are big plans maturing for next year and created for Utah hogs, the problem of parts of America and Canada, so that disposing of the damaged wheat would the years after. The Widisoe farm, be down to a lower standard have been solved in the local market, operated now by an incorporated com- the hour on the trick of making grain harvesting a crop of sunflowers that ex-

ITY in wheat is always a | The fact that the export demand has | and sheep, but this did not bring the | of land this year, all plowed by the | it out with nature before. results that feeding it to hogs would | modern steam appliances that are going | to revolutionize the west. The fall

The year has been a wet one. Up to, planting covered an area of 900 acres of the middle of July the prospect was for | new land, and next summer the sagebrush fires will consume the crop of ages from 1,600 acres more of virgin sagebrush soil, all of it to go into wheat along, and the wheat as green and pret- | next season. The 700 acres plowed last year lies fallow with a fall plowing their notes for expensive plowing country. It hardened down splendidly this year, and it will be planted again after it began to head out, and it was next fall, following the rule of planting not until the harvest rains came that ; only in alternate years, so that the land may save up the molsture of two seasons, under the plowing and harrow-

The fall weather this year was ideal ing system that makes it a reservoir, instead of just a dish to hold its water est crop ever planted in the state is now till evaporation robs the soil of all that under the winter snows waiting the it drank up. it drank up.

> Besides the Widtsoe farm in Dog valley, near Nephi, there are the big Paxman and Crace Bros. farms at Nephi

and Levan, and the farms of the old from below while the sun drinks it up veteran George L. Farrell at Smithfield, from above. No fruit will ever bless the It is one of the wonders of Utah his- efforts of the men who sunk their little tory that Mr. Farrell will not now trade his dry acres for the best irrigated land in Cache county, with a good cash its tons of water out of the reservoir bounty "to bool." He is the original created by deep plowing and harrowing, Utah dry farmer, and he can talk by and tried for a crop of grain after had held for several seasons. As it was a good deal was fed to catile pany, reaped a harvest on 700 acres grow where only sagebrush ever fought hausted the land's strength. Witness Los Angeles. It brought 60 cents a north and south.

them had better beware. They are organized by men ignorant of any kind of farming. One perhaps is a band of streetcar company conductors, another a corporation formed among printers in the printing shops. They have signed machinery, and may prove to be good farmers or very bad ones, and the chances to go wrong are as numerous as in any other occupation requiring special knowledge. Every company locating land should have a land expert go over it, before trying to dry farm it. Witness the case of the company that located where even sagebrush is runty and unable to grow. The land looks good, but 10 inches down there is hardpan, which drains the water off

all in it. Witness also the band of men who forgot that every weed pulls

also the farm where the plow discs | bushel, and the first car load brought This year sees the organization of were set deeper than the fertile soil, a telegram to ship all the wheat of that many dry farm companies. Some of and turned up to receive the grain an understrata with no life in it, while the fertile soil was thrown down deep where it could do no good. Witness also the ambitious farmers who sowed too thickly, and started so much wheat that none could grow to maturity and count up into bushels of yellow prosperity.

Then finally witness the fallure of those who try to "get rich quick" and expect returns in one season. Four years of profit taking, with the profits turned back into the soil each year will put a farm on a paying basis, if well managed, but the chances to poorly manage are infinite, and companies organized among those who know but little of farming should have a care who is mude foreman and placed in charge.

Reports from the Widtsoe farm are at hand on this year's yield and ex-. penses. The average production was 18 bushels to the acre. Rabbits ate up a solid 20 acres of sprouting grain. Some was on sterile soil and fell to a

quality that could be obtained, as it was the best that ever came out of the intermountain region. It was harder, stronger, and more nutritious they said, than the brigated products. The first car had brought only 58 cents, but the next seven cars were taken at once at 69 cents, which was well over the

general market average. It cost to clear and hurn an acre of sagebrush an average of \$1.40. Whin water four miles away and coal five miles away, it costs \$2,50 to plow. To harrow, cost 60 cents more an acre, to drill in the wheat 40 cents, and to buy seed 30. This would make a total cost of a seeded acre \$5.20, with a value of the yield about \$11: In estimating profits of course of the cost of the harvest and of the land must be figured in to cut down the margin of clear profit.

Next year there are plans for dry forms in Cedar Valley, in Parowan, in Cedar City, in Millard county and city, in Manti, and in many other valleys, low average. The best went up to 30 | while there are at present flourishing bushels. Eight cars were shipped to dry farms in Tooels as well as in the

The use of lucern and other pod bear-

HOW TO KEEP SUGAR BEET LAND FERTILE.

The solls of Utah and the surround- | It has been amply and repeately demstates are naturally very fertile. int food in them is usually suffioduce crops for hundreds ie cases even thousands of s may, however, possess a of fertility, and yet be inproducing large crops, be-i foods may exist in soils forms. A part of the fer-ie in water and weak acids fund in the air and in the is readily taken up by the other form is somewhat ind therefore unfitted for imse by the plant. When the fility is large, the crop yield ondingly large; in fact, the y one year depends upon the soluble plant food available season of growth. The in-tility, however, may be made proper methods of culture, fly of greatest importance, determines the number of a soil may last, without the plication of plant foods. ugar beet farmers have made ke of taking very little bout the maintenance of the their soils, consequently portion of the soil has been and the remaining fertiliii) in the greatest state of that in the want in it the largest is in the fall.

shared her greater wheat crop with all

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onstrated that moisture, air, sunshine and frost, acting upon the soil, will set free fertility and make it soluble or directly available to plants. In short, weathering makes an infertile soil ferthe by converting the insoluble and therefore available fertility. Keeping this in mind, the wise sugar beet farm-er will leave the largest possible portion of bits of his soil exposed to the elements during the season of the year when the elimate is most severe. In other words, as soon as the sugar beet is out of the ground, the land should be deeply and thoroughly plowed and allowed to lie in a rough condition exposed to the action of the atmosphere and other climatic forces, until it is necessary to pre-pare the ground in the spring for the conservation of moisture and the plant-ing of seed. The repeated hoeing which is necessary in successful beet growing, has the same effect of exposing the upper layers of soil to the atmosphere, and thus rendering the plant food solu-ble. Likewise, the pulling of the beets in the fall exposes the lower depths of soil to the weathering forces. Fall plowing carefully practised, together with the thorough cultivation necessary in good sugar beet growing, will main-tain the fertility of ordinary western solls much longer than is the case at and the relations is largely soils much longer it may be laid down to the plant. It should as a law which has very few exceptions, that in the west, the only time to plow

water soluble plant food. se done by permitting the act freely upon the fine se of which soils are made. Sugar beets are very exhausting crops. They feed heavily on lime, pot-ash and nitrogen. Even under the best conditions, much more fertility is car-

soil. sugar beets are grown is so valuable that it doese not pay to allow it to lie fallow every other year. If this could be done and beets be planted on the soil only every other year, there would be a very much larger amount of solu-ble plant food available for the crop.

bice plant lood available for the crop. Since this is not feasible, it becomes necessary to return to the soil the equi-valent of some of the fertility which the crop has removed. Plant food may be returned to the soil by adding barn-yard manure, which is especially rich in nitrogen, the sub-titucern is age a plowed up the soil will again be in a suitable condition will again be in a suitable condition will again be in a suitable condition the lucern is beet production. It may be stance in which our soils are most de-ficient. The proper amount of manure noted here, however, that the lucern roots and leaves which contain the stance in which our soils are most de-ficient. The proper amount of manure added to the soil every year would en-able the farmer to grow the usual crop of sugar beets year after year, indafi-nitely. The plant food in manure, how-ever, is also partly in a locked up or insoluble condition. It is only as the manure rots, that the plant food is lib-erated and made available for plants. For that reason, well rotted manure is generally preferable to green manure. The best time to apply the manure or-dinarily found on our Utah farms, is dinarily found on our Utah farms, is in the fall. It should be scattered on the soil just before plowing, and then turned under. During the winter it will gradually decompose and in the spring and early summer will be in prime condition for the use of plants. New manure especially, must be ap-plied to the soil in the fall; when well rotted it may be equally effective if applied in the spring. As already remarked, the element of

applied in the spring. As already remarked, the element of nitrogen is the one which is usually deficient in soils on which sugar beets ivestock is not kept to a great extent, stable manure becomes a scarce and ex-pensive article. Nature has provided
are not doing well. In districts where ivestock is not kept to a great extent, stable manure becomes a scarce and ex-pensive article. Nature has provided
are not doing well in the spring. As already remarked, the element of nitrogen is the consequent reduction of the soil. Ultimately, the failure to soil, with a consequent reduction of the soil, with a consequent reduction of the soil, with a consequent reduction of the soil in the spring. As already remarked, the element of nature the spring. The racial struggle for existence is not over and finally decided in our fa-the weapons employed in it are chang-ing dally. But it goes on. If a second Hague conference tomorrow were to succeed in abolishing war and securing

ried off by the beet crop than is added | us with a method, however, by which | profits to the sugar beet farmer. The in high places that we are inclined to | universal disarmament, it would only future of the state cries for reforma-

tion in this matter. While it is folly to believe that our rich western soils will maintain their present fertility foraver, unless properly cared for, yet the fertility will continue indefinitely undiminished, if the princi-ples here touched upon be observed. Briefly stated these are: First, a care-ful system of fall plowing; second, proper application of manure to the soil, preferably in the fall; and third, rotation of beets with the nitro the nitrogen gathering crops like lucern and the clovers.

There is scarcely an excuse in this state for the falling off in the acre yields of bee's. If the soil is properly cared for, and a moderate amount of water is at the disposal of the crops, the state average yield ought to be between 15 and 20 tons of beets to the acre, instead of between 10 and 12 tons as is now reported by the sugar beet companies. To do this requires ed-ucation of the farmers, and a willing-ness to obey the directions of the principles of scientific agriculture. ing plants for the restoration of the fer-tility of sugar beets fields points, of course, towards a rotation of crops,

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regard the whole controversy as a huge joke. But in England the problem assumed a more serious aspect. T it is not so much the death of race that is feared as its gradual deterioration-physically, mentally, and morally.

In his presidential address before the sanitary inspectors' congress at Black-pool, Sir James Crichton Browne out-lined the situation and its dangers:

"We have a reduced fertility in the more intellectual, the more prosperous, the more thrifty, and cleanly elasses, which cannot be accounted for by the variation in the mean age of possibly

productive wives. "Some hope might be found in the fact that the operative causes of a low birth rate have not yet affected the rural population, from which we might hope to draw invigorating elements. The to draw invigorating elements. The relative fertility of women living in the country is from 8 to 11 per cent greater than of women living in towns. But urbanization is going on at a rate that must rapidly reduce and before long cut off the supplies from this source of sound, progressive human material material.

the main the decline must be "In ascribed either to physical degeneration which is affecting reproductive power and diminishing fecundity, or to a wilful, systematic prevention of child-bearing. It is race failure of race suicide we have to deal with-or simply race failure-for the deterioration of the moral standard, which the practise of race suicide implies, in itself is an indi-cation of debility and decay.

mask the conflict and perhaps hasten the catastrophe.

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as with a method, however, by which nitrogen may be applied very simple to the soil. It so happens that lucern, clo-ver, peas, beans, vetches, and in gen-eral the plants that carry their seeds in pods, have the power, through the agency of miscroscopic living beings that exist on plant very seeds annually by the action, of weathering upon the insoluble constituents of the soil. Usually, also, the land on which agency of miscroscopic living beings that exist on plant roots, of gathering the essential element nitrogen from the atmosphere. The sugar beet itself has no power to do this. If, therefore,



THE KENYON, A LEADING HOTEL OF SALT LAKE CITY.

There is perhaps no better known hostelry between the east and the Pacific coast to the tourist and commercial public than Salt Lake City's fustly famous Kenyon. For years this hotel through the efforts of its widely known proprietor, Mr. Don H.Porter-or as he is more familiarly known in every metropolis in and out of the intermountain country "Don Porter"-has been the stopping place of all travelers who desired the best accommodations.

It is but telling the truth when writing of the Kenyon, that it is one of these notels that advertises a city favorably. First class in every sense of the word, thoroughly modern and with European and American service, It aids the commercial and other Salt Lake "boosting" organizations in advocating, "Don't fail to visit Salt Lake City."

And right here it should be stated that no organized body or association description in Salt Lake City has accomplished more in booming and advertising the metropolis of the intermountain region than Mr. Porr years he and his son, Sam S. Porter, have traveled extensively the Pacific coast and Chicago and everywhere they go they never advertise Salt Lake City. Aside from their individual boosting the employ the year round a man who does nothing but travel and disbeneficial advertising matter in every city and town within a radi-.000 miles of Salt Lake City with the end in view to attracting

and permanent residents to the city. Kenyon hotel is located in the heart of the business portion of the is one of Salt Lake's largest structures, having hundreds of rooms h and as many without. It is one of those hotels at which the id commercial public is made to feel welcome. Its cuisine is unex-ywhere in the United States.



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