



lands yet known to be fertile. It The development of the modern loco-

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was usually said that rather constant cropping to one crop tends to reduce the fertility of the soil below a pint at which a pay crop could be produced. However, often, the best sort of rotations garded as so paradoxical for a jet of have failed miserably to give the steam under a given pressure to enter results naturally to be expected. This finding regarding internal-ly infected seed and disease infected soils is perhaps the chief explanation of such reduced vields on lands of known fertility and proper culture.

culture.

In other words, now that we know about these rather persist-ent wheat and soil troubles, our farmers can take rational steps to cunteract their affects, indeed, in large part, to do away with them. This is real doctrine of hope, hope that we can soon ar-range such proper and succesful which past experience cast but little crop rotations, seed selections light and afforded but little guidance .and seed treatment and so George J. Burns in Engineering Magahandle the farm manures that sine. uniformly, much better results shall come from farm efforts; hope that by proper deep plow-ing and the other necessary methods of culture, the older in 1910, according to David T. Day of

normally plump grain at a rea-sonable cost of effort. greatest oil producing country. In fact, it produces more than all the When the symptoms and nature of these wheat-root diseases are as well and generally under-

the chief reasons for careful seed ing only 8.87 per cent of the total.

the chief reasons for careful seed grading, seed treatment and fertility of the soil rotation. It is not that fertility of the soil is so much injured by the use of the single crop method as that its mechanical texture is spoiled and

ular crop. There is nothing about the nature of the root diseases of wheat propagate in the heavy moss that which may not rather easily be slows there, which to swamp lands. overcome by proper methods of agriculture when we can succeed in getting farmers generally to in getting farmers generally to According to a French physician a plow properly, harrow and pack short period of rest is sufficient to preit; and to carry out proper crop rotations.

As in the past, some such diseases will appear in every crop the chemists with the declaration that just as some smut now escapes, of all the coal mined in the United but their occurence in generally States, fully one-half was wasted,

complished by transgressing scientific rules and disregarding the mandates of accepted knowledge. The injector is an instance in point. From the standpoint of accepted knowledge it was rea boiler against the same pressure and at the same time heat and carry along with it a quantity of water that indignant scientists immortalized their ignorance by writing learned dissertations to prove that it contradicted all the laws of conservation of energy. Dogmatic instructions are often limiting. Unlike the human anatomy, the bones, muscles, arteries and nerves of a locomotive are not of the same structure in two classes of locomotives. Conditions and requirements are constantly changing. The railroad sur-

Petroleum Production.

Leav

Arriv

More than 200,000,000 barrels of oil, with a value of nearly \$128,000,000, were produced in the United States wheat areas may again be the United States geological survey. brought back to proper yields of The United States is now by far the rest of the world together. In 1910 the wells of this country yielded nearly 64 per cent of the total production, Russia scoring a very poor second, with about 70,000,000 barrels, or 21 stood by the farming public as is now the case with potato scab and wheat smut, farmers will see and understand quite clearly the third on the list, Galicia, contribut-

Mosquito Pest in the Klondike.

The mosquito is more numerous in the arctic zone than in the tropics, though there is no land too cold or too hot for its habitation, and the only place where it is not found is in localthat it has become filled with ities where there is little or no moisthe sort of disease germs which ture. There is no country where the are characteristic of that partic- mosquitoes are so large and so numerbus as they are in the Klondike, and it is impossible to destroy them, as they grows there, which contains moisture

Recuperation From Fatigue.

properly and to use farm man- pare a person for new exertion after ures; to grow and save their heavy but not protracted work, while own seed; to grade and disinfect longer rest is necessary after continnous work of a lighter nature,

Dr. Joseph A. Holmes, director of the federal bureau of mines, startled



	DAILT TRAIN	aCHE	JULE	
ve Bend	6:30 a.m.	Leave	Portland	7:50 and 10 a m.
Deschutes	6:53 a.m.		The Dalles	12:40 p.m
Redmond	7:21 a.m.		Deschutes Jct.	1:30 p.m
Opal City	8:00 a m.	Arrive		5:45 p.m
Metolius	8:30 a.m.	**	Metolius	6:00 p.m.
Madras	8:45 a.m.	**	Opal City	6:53 p.m
ve Deschutes Jct.	1.05 p.m.	**	Redmond	7:30 p.m.
The Dalles	1:55 p m.	**	Deschutes	7:55 p.m.
Portland	5:30 p.m.	**	Bend	8:15 p.m.

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