O. A. C. SPECIALIST PRESENTS INTERESTING REPORT ON EXPERIMENT IN RECLAIMING LANDS BIG SUM DURING JUNE

CONSTRUCTION OF DRAINAGE DITCHES BY SLUICING METHOD DECLARED PRACTICAL UNDER SUITABLE CONDITIONS -WORK SECURED THROUGH FARM BUREAU

W. W. Johnston, gives interest- | gressed. ing account of Experiments to Reclaim Alkali Tract by drainage acments and cropping plans.

In a letter to the County Agent, W. W. Johnston, Assistant professor of soils at the Oregon Agricultural College, who was assigned to have ments in drainage and alkali removal on the tract which was started Farm Bureau activity in interesting the experiment station in such work. raising funds, etc., the following interesting information is given:

The following is a preliminary report on the building of a farm drainage ditch on the Burrelle ranch near Vale, Oregon. They work of building the drain was done by Mr. Burrelle, the methods being worked out in cooperation with the writer. The drain was built as a part of an experiment conducted by the Ore- includes also the labor required for gon Experiment Station in cooperation with local interests for the pur- dition to the amount which is now pose of determining the best method of reclaiming alkali lands in Malheur County.

Condition of Land to be Drained The land selected for the experiment and that it was desired to drain is of a type known as "Grease contains a large amount of alkali condition had been aggravated by expected under these conditions, but cost of sluicing where no hard-pan an examination of the sub-soil with was encountered and the dirt washa soil auger revealed the presence ed easily, was approximately 6 of a series of hard-pan dykes running parallel with the river and in the case of the first one extending A plow was used with some suc-to a depth of about 72 feet where cess in losening the dirt for sluicit connected with a layer of almost ing but for the short ditch that impervious putty like clay, a condition which of course prevented the able to go to the expense of rig-(proper drainage of the land. The ging up to give this method a remainder of the field was found to thorough trial. It showed considbe underlaid with streaks of hard- erable promise, however, and would which occurred from 21/2 to 5 feet and for the first few feet. from the surface and varied in hard-pan. The drain was therefore located so as to cross these hardpan streaks.

per was made in the bottom in or- could not be held in place when goder to confine the water to a narrow ing up stream.

channel. It was first planned to sluice by tool which will work without havkeeping the water falling with a ing anyone in the ditch to guide it straight drop of five feet or more for while the soil on the Burrelle and to loosen the dirt by working ranch was such that a man could on the perpendicular surface be- work in the ditch without danger neath the falls with a long bar, the there are a great many places where idea being that the dirt would be this would not be the case. Mr. broken off in large pieces which Percy Purvis, who lives near Vale, perpendicular drop of about 10 feet. that it will sluice successfully. Mr. water was then turned in the ditch ciently to report definitely on this and a bar, made by welding a shar- tool as yet. pened piece of steel on the end of a While enough work has not been fairly successful but the system that are undoubtedly a great many places finally adopted was to loosen the the work so far done indicates that dirt with a shovel and instead of where a good head of water is availusing the straight drop, the ditch able, there is sufficient fall (12 to ers, about 16 inches and about 40 soil conditions are right, this sysfeet long, so that the ditch was tem of building drainage ditches taken to grade as the work pro- will save a great deal of money.

When hard-pan was encountered it was found necessary to break it companied by various soil treat- up with a pick. Small quantities sluiced were found to sluice out without difficulty but when an extended amount was encountered, the larger particles settled to the bottom and it was necessary to loosen this charge of the cooperative experi- material up again and to throw some of the larger pieces out by hand. Some of the worst hard-pan last spring near Vale, as a result of layers were removed with a pick and shovel without the aid of the water. Whenever it was possible to break the hard-pan up into small pieces it sluiced out without difficulty.

Conts The 676 feet of the ditch which is now completed and which averages 11 feet in depth required 353 % hours of man labor 209 1/2 hours of horse labor, or the equivalent of one man working 353 1/2 hours and one horse working 209 1/2 hours. This the fresno work for 200 feet in adcompleted and all the work on the outlet, etc., the cost of which will al hundred more feet of drain. Figuring man labor at 35 cents per the fingers of one hand, and the ofhour and horse labor at 12 1/2 cents fense committed by Luther Gagan fore the parole board. per hour, the cost of digging the at Hood River recently in kidnap-Charging all the labor to date to in the killing of Fagan by a posse, poor drainage. The field is situated fraction over 22 cents, and the cost on the bank of a deep slough and is per yard of dirt removed would be within a quarter of a mile of the approximately 14 cents. This, of river, being at least 15 feet above course, includes the fresno work the water level of the river. A need and the pick and shovel work as for drainage would not usually be well as the actual sluicing. The

> Horse Drawn Tools A plow was used with some sucwas made it was found not practic-

pan running parallel to the first probably work best in a large ditch A cultivator, with the handles set thickness from 2 inches to 2 feet. close together was used with mark-Some places were entirely free from ed success. This tool was used for taking out the last dirt after the ditch was practically completed and in the half day it was used the loose dirt was slutced from the en-At the suggestion of Mr. C. L. tire length of the drain and a cut Batchelder, of the Warmsprings Ir- of about 6 inches was made in adrigation district and others, it was dition. The handles were set close

decided to attempt to remove most together so that it could be handled of the dirt by sluicing. Since it in the bottom of the ditch without was considered desirable to have difficulty and it was fastened by some dirt for refilling, in case tile means of a 20 foot cable to the were to be put in later, and in or- center of a couple of two-by-fours, der to have a good basis for sluic- eighteen feet long, which extended ing operations, ditch 21/2 feet deep, across the ditch. A horse was 9 feet wide at the top, and 8 feet hitched to each end of the inprowide at the bottom was built with vised double-tree to haul the cultia fresno and a groove, 6 inches vator. It was only possible to haul deep and the width of a slip scrap- the cultivator down stream for it

There is need for some sort of a

would be further broken up and has developed a tool, patterned after; put into suspension by the force of a threshing machine cylinder, but the falling water. With this end in with specially prepared tooth which view 70 feet of the outlet where is designed to meet this requirement. the ditch crossed a shallow slough. It is expected that this tool will alwas taken down to grade with so be successful in breaking up the scrapers leaving the ditch with a hard-pan in small enough pieces A head of about 31/4 second feet of Purvis has not tried it out suffi-

pipe, was used to pry the dirt loose done along this line to warrant below the falls. This system was general recommendations and there gave the best results and which was where it will not prove successful. was sluiced back in a series of lay- 15 feet per mile, or over) and the

PAROLED MEN FARM

183 Men Released From Penitentiary Paid \$6946 for Their Work in Month-1493 Paroled Since 1911-410 Break Word

Telegram Salem Bureau Salem, Or., July 30 .- (Special)-Earnings in legislature endeavor of 183 paroled men from the Oregon penitentiary who were reporting during the month of June aggregate \$6946 24, according to the report of Percy M. Varney, state parole officer, made to the state parole board. This was an average of \$35.77 to the man. At the same time the average earnings of conditionally pardoned men were \$62.44 to the man.

Since the passage of the state parole law in 1911 a total of 1493 prisoners have been paroled from the state prison, and 410 of them, or 27,46 per cent have violated their paroles. Of this number 52.44 per cent violated by committing crime and 47.56 pr cent by failure to re-

Crimes By Paroled Men

According to Mr. Varney the crimes committed by paroled men, which have caused them to be returned to prison or to put them in men, heavers, could be counted on

a paroled man. One or two rather sensational cases of forgery and obtaining money by false pretenses are mentioned. Records showing in detail the escapades of the parole violators are not available at the prison.

Up to six months ago, according to the parole officer, 80 per cent of the men on parole were making good. The percentage has been reduced to some extent in recent months because of the prevalence of misdemeanor and crime during the

Few are Oregonians

The policy of the prison relative to keeping men in the state when they leave the penitentiary is changing for the reason that a very small percentage of them are Oregonians. The records show that some time back when the prison population was 324 only fifty-seven of the prisoners were Oregonians. Now when a man is through his term in the state prison he is encouraged to leave the state.

In writing up the case of any man who is slated to go before the parole board for consideration, the parole officer is required to submit a statement from the judge who presided at his trial and from the district attorney who prosecuted him; also a statement from the man himself.

When Paroles Are Violated

When a paroled man violates his parole by commission of a crime and the fugitive status, are usually of is returned to the prison he is reminor nature. Really serious crimes quired by law to serve out the maxultimately be distributed over sever- that have been committed by these imum of his old sentence and the minimum of his new sentence before he is eligible again to go be-

In addition to the regular list of and in this instance the alkaline the 676 feet now completed, the Varney says is the most serious been paroled from the bench. They and their occupations. cost per foot of drain would be a crime that has been committed by also are required to report each

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month. The form of their report is slightly different from that of the 112 men who have been released men paroled out of prison. The lat- from reporting. Of the 1493 who ter must sign a statement showing have been paroled since the law Wood" land. This soil naturally drain would be about \$149.90, ing two women and a boy, resulting paroled men now reporting to Of- among other things the conditions of floer Varney are 128 men who have their parole, their monthly earnings

Many Are Discharged

became operative in 1911, 788 have been discharged.

Twelve men were paroled during the month of June.

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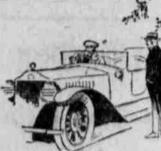
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