

LAST CHANCE LAST CALL

The Great Sale at The Farmers Exchange Positively Ends Wednesday, June 16

The great sale is now at white heat---never such bargains before---everything reduced---the entire stock is on sale---to miss this sale is like losing money and you can't afford to do it so come to the greatest sale on record at

The Farmers Exchange **SPRINGFIELD OREGON**

INDUSTRIAL REVIEW

Oregon will add 180 miles to state highways. Roadways will be graded and rocked but no paving.

Pendleton to have summer sessions of state normal school for eastern Oregon teachers.

Only one-fifth of total vote of state was cast at primary.

Klamath Falls—30,000 acres bird reserve land to be opened.

Portland—Fourteen steel vessels to take cargo here in June.

Portland—So enormous has demand for cans used in fruit preserving become that the American Can company is preparing to erect \$1,500,000 factory here. To be of reinforced concrete three stories high and will cover practically a city block.

Baker—Irrigation project started to water 1100 acres.

Aurora to have new \$25,000 capital national bank.

Myrtle Point—Two hundred employees in sawmills let out by car shortage.

Astoria—Cargo lumber shipments during May were largest for any single month in several years.

Cottage Grove—Road work well under way in this section.

Number of freight cars tied up in traffic or congested on sidings has been reduced from the peak of 286,000 on April 15 to approximately 190,000.

Eugene—128 men cutting balm wood for excelsior factory here.

Corvallis—Work started on 100 foot warehouse for seed and feed trade.

Salem—Work on construction of new hospital to begin July 1st.

Albany to get a fruit juice vinegar factory.

Jackson county farm bureau takes over Perry warehouse for seed trade.

A quarter of a million dollars per annum is being spent in advertising dehydrated fruits and vegetables in this state.

Two million dollars annually is produced from 100 mines in 61 districts in Oregon.

One-third of all the undeveloped water power in the United States is in the Columbia river basin.

Oil reported found in Lane county.

Riddle meat market installs new refrigerator system.

Pendleton—\$500,000 paid for sheep ranch.

Coos Bay wagon road is improved.

Eugene—Good indications for prune crop.

Myrtle Point—Three million feet of timber to be taken out of Bird Tract.

GASOLINE SHORTAGE IS EXPLAINED
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and in fact some of these processes are already in use."

Another prominent oil man gives it as his opinion that the production of oil will be increased to such an extent that the price will be forced down. He predicts that gasoline will cost less in 1921 than this year.

Much Waste at Present.

There also seem to be possibilities of reducing the waste that prevails in the oil fields. The fuel administration, in a recent report, declared that the "total waste in the oil and gas fields" of the nation amounted to \$2,000,000,000 in 1917."

Oil men admit a mammoth waste of these national resources. With customary American energy and brains it seems entirely logical to presume that fuel worth so much will be conserved and utilized.

A review of the situation seems to remove all occasion for alarm. It seems to be the consensus of opinion that public-spirited conservation on a small scale is necessary for a few weeks in the northwest. After that there is every reason to believe motorists can use all the gasoline they require without fear that others will be pinched.

New Supply Found.

Having disposed of the situation at the present and found that there will be gasoline enough to meet the needs for several years to come, it may be of interest to consider how long the people can expect to have all the gasoline they desire to use.

The total crude oil production to date in the entire world stands at about 7,000,000,000 barrels.

Geologists estimate that another 7,000,000,000 barrels exist in various places under the surface of the earth. Other fields may be found to raise this total to a considerable extent, of course.

However much oil there may be found, the time must come, of course when nature's vast reservoirs will be drained dry. That may be 25 or 50 years from now. And, of course, the ingenuity of man will surmount such a trifling difficulty as this.

While the future oil supply is estimated at 7,000,000,000 barrels, already there is much talk of extracting oil from shale. If this proves successful there will be enough gasoline for centuries at the present rate of consumption.

Victor C. Alderson, president of the Colorado School of Mines and a scientist of high standing, in the quarterly publication of the school that he heads writes:

"Recent years have been filled with stirring and far-reaching events, not the least of which has been the birth of a new industry, with a potential supply of raw material that almost defies mathematical computation and staggers the imagination. Can present oil fields produce enough petroleum to meet the enormous demand now existing for oil and its products?

The answer is doubtful. Will new oil fields be discovered to meet the increased demand of the future? The answer is extremely doubtful. Yet oil we must have.

Will Yield Heavy.

"The supply must come from our great deposits of oil shale. If oil is king, then oil shale is the heir apparent.

"The fact that probably the world's largest deposit of oil shale may be found in unusually large and rich deposits in Colorado and eastern Utah has been known for many years. It is estimated that in Colorado alone there are 2500 square miles of this shale, or a total of 116,080,000,000 tons.

"One ton of shale should produce at least one barrel of oil. Assuming that only half the estimated supply of

shale is available, 58,040,000,000 barrels of oil could be produced."

This enormous supply is so large that if 100 plants were out in operation, each treating 3000 tons of shale daily, they could produce 200,000 barrels of oil every day of the year for 800 years.

Other oil shale is to be found outside Colorado.

Franklin K. Lane, while secretary of the Interior, said: "The development of the enormous reserve supply of oil shale awaits the time when the demand for other distillation products warrants the utilization of this substitute source. These shales are likely to be drawn upon long before the exhaustion of the petroleum fields."

News, \$1.75 per year in advance.

Uncle Sam Stocks Prison Farm With Prize Herd



Uncle Sam has gone to farming in earnest. It is not experimental work — but food production — helping to answer the H. C. of L. problem in feeding hundreds of dependents daily. The farm idea is in conjunction with the big federal penitentiary at Atlanta, Ga., and is being worked out under the personal direction of Warden Fred G. Zerbst.

The newest addition is the purchase of a pure bred Holstein dairy herd comprising 52 cows, 21 calves and 1 bull calf. The to-

tal cost of the herd was about \$13,000. The highest price for cow being \$500—the lowest \$175. The herd was purchased in Waukesha-co. Wis., the selections being made from seven large herds there. The biggest purchase was

made from the Wisconsin Masonic Home herd, near Dousman, Wis. The herd is doing fine in the southern climate and is already exceeding the expectations by paying for itself in milk production profits in about nine months. Three of the cows have already set a record of eight gallons of milk each per day and promise more. One hundred honor men from the prison are now working the farm — furnishing milk, cheese, butter, eggs and vegetables to feed the 1800 prisoners now confined in the big prison.