

**WATER POWER HELPS**

**BUILD RAILROAD**

Electricity Generated from Mountain Streams Bores Tunnel Through Mountains. Will Also Drive Trains Through Tunnels.

Never before in the history of railroads was a great building project carried out so quietly as the Pacific coast extension of the St. Paul road. In this great undertaking, which means so much to the Pacific Northwest, more than \$100,000,000 is being expended with as little fuss as an ordinary business enterprise would make in expending a few thousand dollars. The St. Paul road is not coming into a country that needs the aid of the promoter or the land agent. In timber alone there is almost a competency for the new line, for the St. Paul management has been given assurance that not fewer than 50,000 carloads will be given it the first year after the work has been completed.

One of the wonderful facts regarding the construction of this new trans-continental line, which will stretch from Chicago and the Twin Cities by the way of Butte, Montana, to Seattle and Tacoma, Washington, is the thoroughness with which it is being constructed. It is not generally known, for example, that over the 800 miles of mountain stretches electricity is to be used as the motive power, and the engines will be 200-ton electric motors. Down the sides of the Bitter Root mountains are pouring a sufficient number of streams to furnish abundant power for all of the electric motors which the St. Paul will need to handle its trains over the mountain division. These streams are to be harnessed at the cost of millions. The boldness of conception and the unobtrusive way in which the work is being executed challenge admiration.

Through the fastnesses of the Bitter Root range a tunnel 8,750 feet long is being constructed by electrical power and through it will be operated trains hauled by motors. One end of this tunnel will open in the state of Montana and the other will land the traveler in Idaho, and its grade will not exceed .02 or 1 per cent.

In general the work on the west end of the road between Butte and Seattle is nearly finished on some of the divisions, but the long tunnels and the heavy fills will take some time to complete. Rails are now laid in five different sections, but the track is not continuous for more than 120 miles. On the Seattle-Tacoma line the track has been finished from Black River Junction to Summer, Wash. East of Seattle the road is completed for a distance of seventy-five miles, and work over the Snoqualmie Pass of the Cascades is being rapidly pushed. On one division there are at least sixty fills to be made of an average depth of seventy feet, and the road between Black River and the tunnel will cost probably \$75,000 a mile.

Through the St. Paul Pass, in the Bitter Root mountains, work is further along; the grading is completed and the bridges are built. In Seattle the terminal work is scarcely begun. In view of the fact, however, that the greater part of the extension has been done during a time of financial depression, the work in general is a marvel in the annals of railway construction.—Exchange.

**Better Sausage—More Lard—Less Work.**

Probably there is no more disagreeable work connected with farming than "hog killing." Butchering is a disagreeable job, but the preparation of the meat for winter keeping, making sausage and trying out lard, involves down-right hard work of the roughest kind. Much of this labor can be avoided by having proper tools, and nothing will prove more effective than an "Enterprise" butchering outfit, consisting of an "Enterprise" Lard Press and Sausage Stuffer.

These are labor-saving devices of incalculable value, but they also increase the earnings from your hogs. This outfit will pay for itself in one season.

The "Enterprise" Meat Chopper chops meat quickly, uniformly and perfectly. It cuts the meat without crushing or grinding, so that each minute piece will retain all of its natural goodness and flavor.

This increases the value of your sausage—it's better flavored—better tasted in every way and will command a better price.

The drudgery of lard rendering and the hard work of sausage stuffing are overcome by the "Enterprise" Sausage Stuffer and Lard Press. You get more lard and better lard with this machine than in any other way, with one-tenth the work.

The "Enterprise" Sausage Stuffer has a patented corrugated spout which prevents air entering the casing, thus assuring the preservation of the sausage. You can't stuff sausage skins as effectively by hand nor with any other machine.

A most practical and economical way of increasing the yield from poultry is to get an "Enterprise" Bone, Shell and Corn Mill. Put a few cents' worth of dry bone, old shells or corn into an "Enterprise" Bone Mill and it will increase its value tenfold as a poultry food.

There's no food so good for poultry as variety nor a way to save money so easily as to grind your poultry food, using an "Enterprise" Bone Mill.

Send your name and address to The Enterprise Manufacturing Co., of Pa., 219 Dauphin Street, Philadelphia, for a copy of the "Enterprising Housekeeper." This is a cook book containing over 200 choice recipes and other practical kitchen helps.

**Spray Mixtures Ready to Use.**

The Agricultural Remedy Company, Topeka, Kan., has an advertisement in this issue of The Fruit-Grower calling attention to its line of spray mixtures which are sent ready to use by adding water. This company is composed of most excellent men, and their standing insures the quality of the product of their company. We recommend that our readers look for this advertisement, for it will be found profitable to do so. Insecticides are furnished for San Jose scale and other pests, as well as preparations for apple scab and other fungous diseases. In writing the advertiser for catalogue, please say you do so at the suggestion of The Fruit-Grower.

**Back to the Sure Thing.**

The farmers all over the country are again turning their attention to wind as a motive power.

A general reharnessing of the wind is an indication that once more nature is receiving just recognition.

There is every reason for this re-awakening to the advantage of wind for power.

Windmills, especially the "Samson," made by the Stover Mfg. Co., of Freeport, Ill., are found to be productive of reliable power without expense, and can be utilized every day.

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A special department has been added for the manufacture of all kinds of nozzles for spraying outfits. These nozzles are made in every style demanded by fruit-growers in every part of the country, and readers of The Fruit-Grower should send for catalogue of these nozzles, so that just the right styles can be selected for the purpose required.

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