REPORT ON WATERWORKS

(Continued from page 1.)

sion be appointed to appraise the value of these.

The following is a synopsis of Mr. Gidley's report:

Source of Supply.

The water shed of which Pony Creek is the runoff has an area of 6⅛ square miles or 3920 acres, of which three and one-third square miles or 2120 acres lie above the present pumping station. This water shed is situated in an uninhabited district and the possibilities of the contamination of the water are very remote, aside from the decay of vegetable matter and the collection of dirt under the present system.

The records of the U. S. Weather Bureau show that for the last ten years the rainfall in the vicinity of Marshfield was the least in 1905, when it was 49.28 inches.

Taking this driest year as a basis for calculation, we find that 16,098 acre feet of water fell that year on the entire Pony Creek watershed, and 8706 acre feet above the pumping station. Counting 50 per cent loss for evaporation and seepage, which can never be recovered, and this is undoubtedly a large estimate, we would still have a runoff in Pony Creek of 8040 acre feet or 4353 acre feet going past the pumping plant. If this amount of water were stored in reservoirs and drawn upon equally each day during the year, it would furnish 7,185,000 gallons per day from the entire area, or 3,885,822 gallons per day from the area above the pumping plant. Considering that the greatest consumption of water comes during the driest months, and allowing for sources of loss, such as evaporation in reservoirs, etc., we would still be safe in assuming that this entire water shed would furnish enough water for a city of 50,000 or 60,000 inhabitants, and that the area above the present pumping station would supply a city of 20,000 or 25,000 inhabitants if properly developed.

In regard to the flow of surface water in Pony Creek, I have been able to collect the following information:

In June, 1911, Mr. C. W. Cummings found Pony Creek was running 4,500,000 gallons per twenty-four hours at the pumping station and 5,000,000 gallons per twenty-four hours at the lower end of the Water Company's property.

On January 2, 1912, I found about 5,000,000 gallons per twenty-four hours running in Poney Creek at the pumping station. The man in charge of the pumping plant of the Water Company tells me that the creek was the lowest in the month of October for the year of 1911, and that at that time, with the pump running at the rate of 1100 gallons per minute, he could have pumped eighteen hours out of the twenty-four from what was flowing in the creek. This would be 1,188,000 gallons for the twenty-four hours. At the same time it was necessary to run only ten or twelve hours in order to supply Marshfield and North Bend. This reduced to gallons would be 660,000 to 792,000 gallons consumed by the two cities in twenty-four hours.

Although the gauging of a stream is of little value unless it covers a period of at least a year, yet the figures given above are near enough accurate to show that there is sufficient water flowing on the surface in Poney Creek to supply these two cities at the present time, even with little or no provision for storing.

Although we have no way of knowing the exact amount of water that never comes to the surface but follows on top of the harder formations which lie below the leaf mold, fallen timber, etc., of which the creek bed is formed, it is plain to be seen from the loose formation of the creek bed that it must be very great.

In June of last year, Mr. Cummings had a test pit excavated in the creek bottom some 40 or 50 feet away from the creek and although this pit did not reach the solid formation, it showed an inflow of 142 gallons per square foot of bottom per twenty-four hours. This pit has stood full of water ever since it was dug from the underground supply.

Recommendations for Improvement of Present System.

The present system is defective in the following particulars:

There is no provision made for filtering or settling the water that comes from Pony Creek, and so the muddy and stained water is pumped into the reservoir. This could be cured by several different methods, but that which should appear to be the best for present needs, is to place an infiltration gallery across the creek bottom at the pumping station. This gallery should be placed at a sufficient depth below the creek bed so as to collect the ground water flowing beneath the surface and conduct it to the sump where the pump can lift it to the reservoir. This gallery, which could be built of wood at a moderate cost, should be so protected as to allow all the surface water to pass over it, and in this way the system would be supplied with clear, pure water. Everything would indicate that this method would furnish plenty of water for the cities of Marshfield and North Bend at the present time. If the time should come when this supply would be insufficient filters could be installed to make use of the surface water. Should the increase in population demand it, storage reservoirs could be constructed to collect the entire runoff including the ground water and the problem of filtration could be worked out at that time.

The next great fault with the present system is the reservoir. An entirely new reservoir built of concrete and having a capacity of at least 1,500,000 gallons should be constructed. The proper place for this reservoir would be at about the same elevation as the point where the present pipe line from the pumping station crosses the divide. This would not increase the work of the pump and would give a greater pressure than could be obtained should the elevation of the present reservoir be used. This reservoir should be divided into two parts, so that one-half could be cleaned while the other is being used. It should be roofed over and guarded from any possibility of contamination.

The next and probably the greatest need of the present plant is a distributing system that will deliver water to all parts of the city, and under great enough pressure to furnish adequate fire protection.

I have laid out a distributing system for Marshfield, which I believe will fill all the necessary requirements. It can be better understood by examining the plat which accompanies this report.

Its main features are briefly as follows:

A sixteen-inch conduit from the proposed reservoir to 10th street at the corner of Anderson avenue. A 10-inch pipe from Anderson avenue direct across the hill to Ferndale to connect with the line to North Bend. This would shorten the distance of the North Bend line and at the same time give Ferndale the best of service, and would give a greater pressure in the business part of the city. The other lines are planned for parts of the city which are without adequate service at the present time. It is proposed to add forty-one (41) new hydrants to the present system.

The mains are of sufficient capacity to supply 6 1¼-inch fire streams at any part of the city without reducing the pressure at that point more than 20 pounds. The normal pressure at Front street would be about 100 lbs.

The estimated cost of making the proposed improvements is as follows:

Cost of Proposed Improvements for Present System.

Description.	Value.
7000 ft. 16-in. wood stave pipe	$ 9,084.10
6230 ft. 10-in. cast iron pipe	8,922.85
8320 ft. 8-in. cast iron pipe	9,098.35
14590 ft. 6-in. cast iron pipe	11,540.95
1000 ft. 4-in. cast iron pipe	640.00
Gates and gate boxes	2,498.00
Fittings, 21,400 lbs.	1,284.00
Concrete reservoir	10,000.00
Water supply improvement	2,000.00
	$55,068.25
Engineering and incidentals, 10 per cent	5,506.80
Total	$60,575.05

The cost of the forty-one hydrants, which would be about $2300, has not been added to this estimate from the fact that this expense would have to be borne by the city under the present franchise.

EACH PERSON SHOULD HAVE $34.61 BUT MANY HAVEN'T

WASHINGTON, Feb. 20 — An equal division of all the money in the United States would result in each person possessing $34.61.

That amount is the per capita circulation, according to the calculation of the Treasury Department, which estimates that the population of the country has grown from 91,972,266, as determined by the census of 1910, to 94,958,000 on February 1, 1912.

The stock of money in America is fast climbing up into the billions. On February 1 there was $3,624,572,121 in the United States. Of this $338,302,428 represented the assets of the government and $3,286,269,640 was in circulation.

Thirty-three years ago the entire amount in circulation in this country was $816,266,721.

CHILD KILLS PANTHER.

MEDFORD, Or., Feb. 20.—Eugene Moore, 9, of Woodville, is touted today by friends to be the youngest hunter in the northwest. While on his way home from school last night he shot and killed a cougar which measured over 11 feet from tip to tip. His dog had treed it.

REAL MILK and REAL CREAM delivered to your home on **FIVE MINUTES' NOTICE. PHONE 329 J.** F. A. Sacchi.

Libby COAL. The kind YOU have ALWAYS USED PHONE 72 Pacific Livery & Transfer Co

A TURKISH BATH will do you GOOD. Phone 214-J.

The Times' Want Ads bring results

WILL SUPPORT CONCERT BAND

(Continued from page 1.)

he believed it would serve to attract people here. He paid similar compliments to the excellence of the band that Supt. Tiedgen had expressed.

Councilman Ferguson said that he didn't doubt but that the band was a good one and a nice thing to have. However, he said that there were so many necessities that the city needed that he did not believe it was opportune to spend money for luxuries now. Relative to high values on land here, he said that they were not high if Coos Bay had any prospect of becoming anything except a little burg. He said that if the assessments were too low it was one of the duties of the council to have them increased.

Councilman Copple expressed a similar view. He said that he personally was helping support the band and would continue to do so and even increase his contribution if necessary. He thought the essential things the city needed should come first.

A. J. Savage said he thought the band should be supported, and by the city if possible.

F. E. Allen said that in view of the fact that ninety-five of the largest taxpayers had petitioned the council to support the band, he didn't think the council had the right to refuse. Regarding the cost being imposed on the small taxpayer, he said that it would amount to only a few cents a year and that in return the small taxpayer and his family could attend fifteen or twenty-five excellent concerts in a year.

Mayor Straw said that as the saloon licenses had been increased $2000 per annum and that as the saloons were not regarded as inducive to the highest morality, he didn't know of a better way that the income from them could be used than in supporting a band that tended to the better things of life.

A. H. Powers suggested that if the city did not have the money to defray the cost of the band that the resorts and illegal dispensers of liquor be haled into court once a month and fined, the revenue to go to the support of the band. He said that there was a resolution of J. N. Nelson's on file providing for this.

Finally a motion that the council appropriate $150 per month for the band was adopted, Councilmen Ferguson and Copple voting nay.

South Fourth Street.

M. C. Horton and I. S. Kaufman were present again and asked to have the jog in South Fourth street straightened out by the city dedicating a strip six feet wide along the west side of the street. It was stated that C. A. Smith planned to donate a strip twenty feet wide along Block 8 to Anderson avenue to make the street uniform. R. A. Copple wanted to make it a condition of vacating the strip that Messrs. Kaufman and Horton have the Smith interests sign up to give the Block 8 strip. Messrs. Allen and Powers favored vacating the strip as requested by Messrs. Horton and Kaufman and the Council finally agreed to do so, instructing City Attorney Goss to draft the necessary ordinance to do so.

Routine Proceedings.

The North Front street bulkhead matter came up again. It was stated that the property owners through the Port Commission had awarded the contract to do the work privately. However, lest some obstacle bob up and delay it, the Council decided to go ahead and get it in such shape that the city can take hold of it and rush it to completion in case the property owners fail. This was done by equalizing the assessment and passing the necessary ordinances.

New filing cases and cabinets for the offices of the City Engineer and Recorder were ordered.

The grade on Front street, between Alder and Broadway, was ordered established.

City Engineer Gidley and G. W. Tribbey, who have arranged for the private construction of the elevated walk along the Central avenue bridge to protect pedestrians against autos and vehicles, were instructed to go ahead with the work.

Mrs. A. R. Sears' application for a refund on her North Cedar street (now Broadway) assessment, was discussed. It seems that instead of getting a fill in front of her property, a trestle work was put in. There is a deficit of a couple thousand dollars on this work and owing to a tangle over the title to some of the property, it is now in court. Contractor Hugh McLain has been threatening to sue the city but has not done so yet.

Chairman Savage of the finance committee to which the proposition of Robert Marsden, Sr., regarding water rights on the city park property was referred, asked for another week in which to investigate it. Marshal Carter, Councilman Powers and some of the others stated that they did not think there was much water available from the park any longer.

Councilman Copple asked for another week for the health committee to investigate the garbage dump matter. He said that the committee thought they had a new dump arranged for but it had not been definitely closed up.

Building Ordinance.

The Marshfield building ordinance came up again last evening for discussion. An amendment to the ordinance permitting the moving of buildings on the same lot inside the fire limits under certain conditions was read. Councilman Copple asked that a further amendment be made permitting improvements or alterations outside the fire limits costing not more than $100 without a special permit. This was petitioned for a year ago. The matter was referred to City Attorney Goss again.

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People in Marshfield who have constipation, sour stomach or gas on the stomach, should use simple buckthorn bark, glycerine, etc., as compounded in Adler-i-ka, the new German appendicitis remedy. A SINGLE DOSE brings relief almost INSTANTLY because this simple mixture antiseptic izes the digestive organs and drains the impurities. Lockhart & Parsons Drug Co.

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Rexall Dyspepsia Tablets aid to insure healthy appetite, aid digestion, and promote nutrition. As evidence of our sincere faith in Rexall Dyspepsia Tablets, we as you to try them at our risk. If they do not give you entire satisfaction, we will return you the money you paid us for them, without question or formality. They come in three sizes, prices 25 cents, 50 cents and $1. Remember, you can obtain them only at our store—The Rexall Store. Lockhart-Parsons Drug Co., "The Busy Corner."

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