

Mr. and Mrs. W. B. Foote of Portland spent the week-end with his parents, Mr. and Mrs. A. W. Foote, Sunday. They enjoyed a family dinner at Eagle Creek.

Mr. and Mrs. Roy Spencer had as their guest Mrs. Spencer's sister, Miss Geraldine Sapp, of Waldport. The Spencers moved Tuesday to Rhododendron, or vicinity.

### TREASURER'S REPORT

FOR THE CITY OF CASCADE LOCKS

August 1, 1939

Budget	EXPENDITURES	Budget Balance
Printing, \$100.00		\$ 89.75
Advertising, \$200.00		175.00
Elections, \$50.00		50.00
Emergency, \$1249.00		225.86
Police Dept., \$1300.00		595.65
Fire Dept., \$500.00		53.37
Recorder, \$425.00		239.70
Treasurer, \$340.00		155.00
St. Dept., \$1,000.00		532.59
Attorney, \$250.00		206.61
Engineer, \$100.00		98.00
<b>TOTAL</b>	<b>\$3915.00</b>	<b>\$1880.92</b>

RECEIPTS	
Licenses, Rents, etc., \$650.00	\$ 513.28
Fines, \$450.00	122.25
Road Taxes, \$450.00	11.00
Other Taxes, \$5,964.00	2614.50

Bank Balance as of Aug. 14..... **\$197.56**

#### NO OUTSTANDING WARRANTS

Vera A. Sprague,  
Treasurer.

# DANCE

## KOBBERG'S BEACH

### SATURDAY

AUGUST 19

Featuring

MISS VELMA SHERRELL

*in Song and Dance Numbers*

# Morey Graff

*and His Swingsters*

### Anderson Funeral Home

AMBULANCE SERVICE

514 State Street      Hood River, Oregon      Phone 1391

Hunting and Fishing Licenses Issued Here

### Prices for all Pocketbooks

on Complete New Stock Steelhead, Salmon Tackle,

Tires - Batteries - Accessories

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★ SEE NORGE BEFORE YOU BUY! ★

## BARTOL MOTOR COMPANY

Hood River, Oregon

### More Grand Coulee

(Continued From Page One)  
national asset than the Panama Canal."

After more than a million dollars had been spent, investigating various plans for putting water on this acreage, the Bureau of Reclamation finally adopted the plan being executed, and in December, 1933, the first contract was let.

The plan adopted was the most audacious ever conceived by Man. It contemplated the erection of a huge concrete dam to take the place of Nature's ice barrier and the diversion of 7 1/2% of the river's flow through the Grand Coulee to irrigate the great delta below. It was not necessary to design the

### County Nurse Assumes Duties

Miss Lucille Dunn, newly selected County Nurse, assumed her duties Tuesday morning at the County Health Association office in the Court House building.

Our new nurse is well qualified to serve this community, being a graduate of the St. Vincent's Hospital in Portland and having received her Bachelor of Science degree from the University of Oregon.

Miss Dunn this week announces the office hours of the Health Association to be the same as before, 8:30 a. m. to 5 p. m., at which time she will be happy to meet those who care to call.

Later this fall, Mrs. Cora Dunn mother of Miss Dunn, will join her to make her home in Hood River with her daughter.

Miss Dunn succeeds Miss Bessie Williams.

### MID COLUMBIA SOFTBALL STANDINGS

(Second Half)

Team	W	L
Engineers	5	0
Bonneville	4	1
Hood River	3	2
Stevenson	2	2
Willard	2	2
V. F. W.	1	3
Bingen	0	4
Wyeth	0	3

Player Averages

Player & Team	AB	H	R	Pct.
Reimer, Eng.	32	18	21	.563
Howard, B'ville	32	15	9	.469
Miller, Eng.	35	15	9	.429
Peer, Eng.	49	20	24	.408
Woodard, B'ville	23	9	9	.391
Bergman, V.F.W.	23	9	5	.391
Brink, B'ville	23	9	6	.391
J. Garrett, H. R.	39	15	12	.385
J. Hasket, Bv.	13	5	5	.384
Portner, Bingen	13	5	4	.384
Joy, Bingen	13	5	3	.384
Baker, H. R.	17	6	7	.353
Rich, B'ville	23	8	10	.348
Hinds, B'ville	41	14	18	.341
Ingalls, H. R.	45	15	16	.333
Mason, Stev.	27	9	6	.333
Erwin, Willard	24	8	5	.333
Lindow, H. R.	15	5	7	.333
O'Neil, V.F.W.	22	7	6	.318
Hill, V.F.W.	22	7	3	.318
Cramblett, Bv.	38	12	9	.316
Matlock, Eng.	48	15	14	.313
Woods, Wyeth	13	4	3	.308
Leeman, Wyeth	13	4	3	.308
Mason, Bingen	23	7	3	.304
Henry, Willard	33	10	10	.303
Hadley, B'ville	43	13	10	.302
Ash, Stev.	10	3	2	.300

### FOREST SERVICE TO HAVE EXHIBITION

The Multnomah County Fair was this week notified that the Mount Hood National Forest would have an exhibit on display.

The exhibit will consist of a fire prevention display depicting a "mancaused fire diorama" and several large illustrations. The diorama is operated by electric current and shows the fire starting by lightning and other causes. New fire fighting equipment will also be on display. The exhibit will be in charge of Senior Ranger Albert Wiesendanger.

### K.P. Picnic Draws Many to Happy Dell

One hundred sixty-five persons turned out Sunday at Happy Dell Park at Viento for the annual District 3 Knights of Pythias picnic. Representatives were present from Wasco, Hood River and The Dalles. Rev. Arvin F. Leak of Hood River, and Henry Cramer of The Dalles, were the principle speakers of the day. Earl Spaulding of Hood River sang several songs and the Hood River K. P. Band rendered several selections.

Races and amusing contests of various sorts entertained the crowd during the afternoon. A ladies' child-calling contest and a balloon breaking affair were greatly enjoyed by the picnickers.

dam high enough so that the waters would flow directly into Grand Coulee. To do so would have backed the river way up into Canada. Instead, the dam was designed just high enough to back the waters to the Canadian border. Huge power plants were then designed at the dam, part of the power from which will be used to pump the necessary water the rest of the way up into Grand Coulee.

Our first view of the project is from the rim of the gorge. Had we arrived at this point just a brief 5 years earlier, we should have found only a wagon road leading down to a crude lumber-built ferry across the stream.

The change that has occurred in just 5 years takes our breath away. On the left bank of the river we see a permanent town of more than a hundred buildings with paved streets and concrete sidewalks. This is the town of Coulee Dam—or "Engineers' Town," as it is commonly called. This will remain as a residence for those who operate the project.

Across the river we see Mason City, temporarily erected to house those who construct the project. Hospitals, hotels, school houses, churches, laundries, stores, recreation buildings, office buildings—everything has been provided that is need for the welfare and comfort of the 15,000 people that now inhabit the area.

Thirty-two miles of railroad have been built up the Coulee and down into the gorge to reach the project. Thirty-one miles of 110,000-volt transmission line was constructed to bring in the power needed. Railroad and suspension bridges have been thrown across the river—all to get ready for the mighty construction program to follow.

So mighty is the Dam stretched out below that it makes the river, which is boiling through the west side of it, look insignificant. Yet our guide reminds us that that river is second in flow only to the Mississippi and is the largest potential source of power on the North American Continent. Its annual run-off here averages 80 million acre feet—5 times the run off of the Colorado River at Boulder Dam.

The Dam itself will be 4300 feet long at the crest, and will tower 550 feet above bedrock. It is 500 feet thick at the base, tapering to 30 feet at the crest. It will be topped by a 30-foot highway.

It is the straight gravity type—depending upon the weight of the Dam itself to resist the tendency of the water behind it to push it down the stream.

It is truly the largest thing ever constructed by Man, being 4 times the bulk of the Great Pyramid. With the power houses and pumping plant it will consume near 12 million cubic yards of concrete—3 times as much as the Boulder Dam. This concrete would build a standard 16-foot highway from Seattle to New York and back to Seattle by way of Los Angeles.

When completed, this gigantic Dam will form a reservoir 151 miles long—4,000 feet wide—375 feet deep—covering 82,000 acres. The lake will contain 10 million acre feet of water—2,000 gallons for each person on earth. Yet the mighty Columbia will fill this lake in only 3 weeks of an average June or July flow.

So clear are the waters of this stream, and so fine are the solids it does carry, that there will be no silt problem involved at all.

**Diverting a Mighty River**  
Because of the size of the Columbia River, it was not practical to divert the river through tunnels around the damsite. Instead, the river has had to be diverted by giant cofferdams from that part of the Dam under construction. The west side cofferdam—the

largest ever built—was 3,000 feet long parallel to the river. To build it, 127 miles of steel piles 15 inches wide and 40 to 80 feet long were driven into hard clay by steel hammers handled by long boom cranes.

Of course, a structure of such gigantic size must rest on solid bedrock, so the first job was one of excavating down to that point.

After 3 million yards had been removed by shovels and trucks, a belt conveyor system was installed which, up to June 1, 1937, took out an additional 14,500,000 yards of "common" and 850,000 yards of rock. Thirteen million yards of this was carried by the 60-inch conveyor belt to Rattlesnake Canon, a mile away, and 500 feet above the point of its origin.

At its peak, 5,000 hp. was required to drive the conveyor and nearly 51,000 were handled in a single 21-hour day. It was constructed in sections and the failure of one section meant the shut-down of the entire conveyor with a loss of 2,500 tons of dirt moved per hour.

**A New Way to Deal with a Slide**  
It was during the excavation period that an interesting problem developed on the east side upstream area of the excavation. Mud started to ooze into the deepest point of the excavation between two rocky points 110 feet apart. To stop the slide, nearly 400,000 yards of extra dirt would have had to be moved at a cost of nearly half a million dollars.

Then a young engineer at the Bureau of Reclamation had an idea.

5 rows of 3-inch pipe were driven down 55 feet into the slide between the rocky points. One and a half inch pipes were inserted inside of these and hooked to an 80-ton capacity ice plant circulating brine. The ground was kept at zero for over 7 months until the excavation could be finished and filled with concrete. The pipe was then pulled out and salvaged and the plant dismantled. The total cost of stopping the slide by this unique method was only \$30,000.

But we are about to leave for a closer look at the project.

**Where Sand and Gravel Come From**  
A drive of 2 miles across the river through Mason City and up the east wall of the canon brings us to the spot, on the rim, from where 20 million yards of aggregate that will be needed is coming.

By removing only 3 1/2 feet of over-burden, an area of 100 acres is being worked to a depth of 250 feet by huge electric shovels. These shovels drop the material through grizzlies onto extensible belt conveyors which take it to the raw rock pile. Everything over 6-inch size is passed through gyratory crushers on the way to the washing and screening plant below.

This huge Washing and Screening Plant is a source of wonder in itself. It uses 20,000 gallons of water per minute in washing the impurities from the raw gravel. So thoroughly is the job done that the aggregates sent to the Dam

contain only from .2% to .3% impurities and make concrete having an average strength of 5500 pounds to the square inch.

After washing, the aggregate is split up into piles, according to size, and transferred by belt conveyor to stock piles near the east end of the Dam.

(Concluded Next Week)

## CASCADIAN THEATRE

NOW PLAYING—

The Best Comedy of the Year  
**"BACHELOR MOTHER"**  
Ginger Rogers, David Niven, Charles Coburn, E. E. Clive and Frank Albertson

PLUS—Donald Duck in "Donald's Cousin Gus," and Edgar Kennedy in "Beau and Error."

Beginning Monday Aug. 21  
Charles Boyer and Irene Dunne in  
**"A MODERN CINDERELLA"**

## RIALTO THEATRE

Fri., Sat. Aug. 18-19  
George Raft and Claire Trevor in  
**"I STOLE A MILLION"**  
Midnight Matinee Saturday Eve.

Sunday Only Aug. 20  
June Lang and Robert Kent in  
**"FOR LOVE OR MONEY"**  
Also—  
**"BLUE MONTANA SKIES"**

Gene Autry and Smiley Burnette  
Mon., Tues., Wed. Aug. 21-23  
Randolph Scott, Nancy Kelly and Cesar Romero  
in the Rip-Roaring  
**"FRONTIER MARSHALL"**

Thursday Only Aug. 24  
REVIVAL NIGHT  
Tonight we bring back the greatest picture of its kind ever made! It is  
**"ANGELS WITH DIRTY FACES"**  
James Cagney, Pat O'Brien, Ann Sheridan, Humphrey Bogart, the "Dead End" Kids

Also on the same great program  
Arthur Lake, Penny Singleton and Baby Dumpling  
**"BLONDY TAKES A VACATION"**

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