

Power Development Funds Solve Problem

By C. K. LOGAN

Present electrical energy supply problems of Linn and Benton counties and affecting other communities in the Willamette valley, including the Detroit dam area, are believed to be solved by the inclusion of necessary funds in the department of interior budget for 1951, according to W. E. Trommershausen, manager of the southwestern district of the Bonneville power administration.

Counties Get State Money

Secretary of State Earl T. Newberry Friday announced distribution of \$1,709,708.21 out of state highway funds to Oregon counties.

This amount represented 19 per cent of the receipts into the state highway fund for last October, November and December, from motor vehicle registrations, motor vehicle fuels taxes, motor carrier fees and motor vehicle fines.

The distribution by counties included:

Baker	\$20,801.88
Benton	\$32,878.06
Clackamas	\$89,310.30
Clatsop	\$32,906.82
Columbia	\$27,002.46
Coos	\$46,830.04
Crook	\$9,841.56
Curry	\$7,135.28
Deschutes	\$26,907.55
Douglas	\$58,816.42
Gilliam	\$4,377.22
Grant	\$9,907.71
Harney	\$7,992.31
Hood River	\$16,614.47
Jackson	\$73,843.35
Jefferson	\$5,355.05
Josephine	\$33,847.28
Klamath	\$56,834.88
Lake	\$9,080.51
Lane	\$136,732.14
Linn	\$63,581.90
Malheur	\$29,918.69
Marion	\$109,473.72
Morrow	\$7,210.05
Multnomah	\$495,865.74
Polk	\$29,064.53
Sherman	\$4,446.25
Tillamook	\$22,846.69
Umatilla	\$50,248.91
Union	\$22,783.42
Wallowa	\$9,999.74
Wasco	\$18,800.20
Washington	\$67,585.24
Wheeler	\$3,511.56
Yamhill	\$42,998.50

Bank Growing, Changes Made

Growth in every category was reported by G. Carroll Meeks, president of the Willamette Valley bank, at a meeting of stockholders Friday night with all directors re-elected. Plans were made for minor remodeling to provide additional room for officers and business.

Al H. Flicker, who has been cashier since the bank opened in 1947, was advanced to vice president, a new position. His place was given to William F. Baker, a former bank president in Glenwood City, Wis. Robert Jungling was promoted from teller to assistant cashier.

Baker has been here four months and the family is living at 1739 Market until a home is purchased. He graduated from the University of Wisconsin and served in the army air force during the last war. He followed his father as president of the First State Bank of Glenwood upon separation from the armed forces and served over three years before selling his interests.

Jungling graduated from Salem high school in 1943 and came to the bank as clerk in 1948, moving his family here from Carlton. He has completed a home at 1080 Lamberson street.

Children Can't Hold Two Offices, Opinion

Attorney General George Neuner said Friday that Herman Chindgren cannot simultaneously hold office as a member of the state legislature and as a member of the Clackamas county fair board.

Neuner wrote the opinion at request of Leonard I. Lindas of Oregon City, district attorney of Clackamas county.

Lindas had asked: "Is a member of the Clackamas county fair board the holder of a public office?" Neuner ruled that he would be. Under Oregon law one man cannot hold two "public offices at the same time."



Mother Nature Turns Lumberjack—Winter's icy ax brought this tree limb crashing down on an auto and across a street during a severe ice and snow storm at Portland, Ore. The week-long blizzard left 13 inches of ice and snow in Portland and caused the death of 39 persons in Oregon, Washington and northern California. (Acme Telephoto)

What's This Super-Bomb 1000 Greater Than A-Bomb?

By HOWARD W. BLAKESLEE
(Associated Press Science Editor)

New York, Jan. 21 (AP)—A hydrogen bomb is merely a lot of hydrogen gas which explodes by the simple process of fusing hydrogen atoms together to form helium gas.

In this fusion a lot of energy is given off. The amount is seven times greater than the energy from an equal weight of the splitting atoms in A-bombs. So this hydrogen bomb rates about 1000 times stronger than an A-bomb because of possibly less trouble in handling the mass.

To produce this explosion, you need temperatures and pressures of millions of degrees and pounds, such as exist in the sun. An A-bomb gives you both—but only momentarily.

The question is—can science use this momentary A-bomb flash to set off a hydrogen bomb?

The troubles are serious. It is true that hydrogen does just this in the sun and stars to make their heat. But the change is not directly hydrogen into helium. The hydrogen first changes carbon into nitrogen, the latter into oxygen and then down the scale to helium as the final product.

That process may take too long to furnish an explosion. It would also require many times more carbon in the bomb than hydrogen. There's no evidence that if you started the hydrogen flash it could continue by itself long enough to explode. In fact, some scientists have held that only sustained million-degree temperatures would make it possible.

On the other hand, the prospects for success rest on a number of facts. One is that scarcely anything is yet known about the details of this process of nature.

This means possible short-cuts to be discovered. It is a fact that there are three kinds of hydrogen to play with, plain, double weight—known to the public as heavy water—and a triple weight hydrogen known as tritium, and with some mean radioactivity. These complicate and increase the possibilities.

A five-year chain of events leads up to the present hydrogen bomb.

Soon after the war ended, Dr. Robert M. Hutchins, chancellor of the University of Chicago, said new horrors in physics laboratories might make the A-bomb obsolete in five years. He did not explain.

In 1946, the hydrogen bomb was named by John J. McCloy,

then assistant secretary of war. He said his information came from scientists who had actually worked on the A-bomb. They told him that, working at the wartime pace, we were within two years of producing a hydrogen-helium type bomb 1000 times more powerful. Dr. E. P. Wigner of Princeton, said the hydrogen reaction would yield seven times greater energy.

Next year, Dr. W. O. Roberts, superintendent of the high altitude observatory, of Harvard and the University of Colorado, wrote that a superbomb of the hydrogen-helium type for detonation by an A-bomb was on the drawing boards.

The same year, Dr. Philip Morrison of Cornell, one of the Los Alamos bomb scientists, was quoted that "the possibility exists" for a hydrogen-helium bomb.

No one has been definite. The gossip has persisted quietly. A year ago, General MacArthur was reported to have mentioned a bomb 1000 times more powerful.

How much worse is a hydrogen bomb?

At 1000 times more powerful

Unshaven Man Is Sen. W. Morse

Portland, Jan. 21 (AP)—That crumpled, unshaven man who got off the train looking for a locksmith yesterday, was Sen. Wayne L. Morse.

He found the locksmith, too, then shaved, got some rest and was ready today for a series of speeches that will keep him in the state until January 26.

Morse was caught in the snarl of transportation resulting from

energy of the bomb. That, if it should come true, might mean searing heat reaching out hundreds of miles.

Under the atomic energy law, only the president of the United States has the right to tell you how much of the hydrogen bomb reports are correct.

Everyone else on the inside has lips sealed by a possible death penalty. Those who talk freely are outside the know.

its concussion won't lay everything flat for 1000 miles—but only for 10 miles. That's a radius, meaning the possibility of flattening most everything over 300 square miles.

Will there be radioactivity from this bomb? Probably, but not likely from so many different kinds of atoms. But you will have all the present A-bomb radioactivity anyhow.

One horrible possibility is in the published scientific records. It is that when a nuclear bomb gets powerful enough, the flash of searing heat will rise in direct proportion to increase

winter storms. When he got off the train here, he was 30 hours late. His suitcase was locked—shaving equipment inside—and the key not to be found.

Chapter Will Initiate

Woodburn, Ore., Jan. 21 — Two candidates will be initiated at the regular meeting of Evergreen Chapter No. 41, Eastern Stars, at the Masonic temple on Monday night. Members of the refreshment committee are Mr. and Mrs. Jess Fikan, Mrs. E. J. Hughes, Mrs. Edna Lytle, Mrs. I. L. Anderson and Mrs. Bertha Baldwin.

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Mother, 2 Children Burned to Death

York, Me., Jan. 21 (AP) — A mother and two children burned to death early today when a portable oil stove exploded in their bedroom, splattering them with the blazing fluid.

Those killed in the blaze which burned out their five-room frame home, were Mrs. Thomas McDonald, 41, and her sons Arthur, 5, and Richard, 7. The woman's husband was burned seriously when he opened the door to the bedroom as the oil stove blew up. Doctors said he also suffered a heart attack and shock.

Two other children, Thomas Jr., 18, and Sheila, 11, fled unharmed.

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