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DISCUSSES DANGER OF DRAINAGE CUT OPPOSING ANY REDUCTION

Engineering Expert Gives Views on Proposal to Take Less Water From Lake Would Be Fatal

"Hundreds of lives will be lost each year, and ultimately thousands, if the proposal to cut down the flow of water in the Chicago drainage canal from 10,000 cubic feet per second to 4,000 cubic feet is successfully pushed through," said Director John F. Hayford, head of the Northwestern University Engineering School, to students at chapel on the Evanston campus recently.

Director Hayford, who is famous not only as an engineer, but for his research work upon waterways and great lake levels, strongly opposed the suggestion of certain elements in Canada, Wisconsin and navigation circles that the way to remedy the situation is by reducing the amount of water now being diverted from Lake Michigan into the drainage canal and Illinois river.

Yearly Backflow
"Even at present with 10,000 cubic feet of water running out of Lake Michigan into the drainage canal, there is once a year, at least, a backflow of water into the lake," said Director Hayford. "This means that much sewage is swept into the source of our drinking water supply and it is merely a matter of luck as to whether this sewage pollutes the water around the intakes. Last summer my belief is that it did, as there was much typhoid in the Chicago district. Just what causes this backflow is problematical but it may be heavy rains raising the river level so that the flow is back into the lake despite the pumping force, or that the lake level suddenly drops and effects a backflow. But, whatever the cause, this backflow is dangerous. Now, if the current is made more sluggish by reducing the flow from 10,000 cubic feet per second to 4,000 cubic feet, the backflow into Lake Michigan would take place four or five times a year. Ultimately this would make absolutely certain typhoid epidemics that would sweep out hundreds if not thousands of lives each and every year."

Favors Building Dams
Director Hayford advocated the building of regulation dams near Buffalo and further down the St. Lawrence river—a plan which the Chicago drainage trustees already have offered to effect.

"For two and a half to eight millions of dollars," he explained, "two regulating dams could be built, one at Buffalo where the Niagara river leaves Lake Erie, and one in the St. Lawrence as a part of the St. Lawrence project. These dams properly operated would restore all of the depth lost by Chicago's diversion of 10,000 cubic feet per second—and more—and would put the lakes at a higher level during the dry years than they would be in a state of nature and would not put the lake levels above the danger limit in flood years."

Summary of Views
Director Hayford summarized his views upon the drainage and deep waterway problems of the Middle West in these terms:

- 1—Carry out the St. Lawrence project.
- 2—Take out 10,000 cubic feet of water per second at Chicago and use it for sanitation.
- 3—Build dams with movable parts at Buffalo and in the St. Lawrence river and use them wisely to regulate the levels of the lakes.
- 4—Build a submerged dam at Niagara Falls to prevent the backward travel of the falls (five feet each year) and the wasting of water where it does no good, either for scenic purposes or for power.
- 5—Utilize the full 300-foot drop from Lake Erie to Lake Ontario for developing water power instead of a half only.
- 6—Utilize the power opportunities in the St. Lawrence to the full, as rapidly as the market for power can be developed.

Regulating Dams
The Northwestern engineer and scientist also pointed out that regulating dams would more than overcome the loss of water over the St. Clair flats above Detroit where one-tenth of a foot drop in level means a matter of \$600,000 loss in freight revenue to shippers each year. Therefore from a business as well as a sanitation and humane standpoint, he urged that no change be made in the present waterflow into the drainage canal out of Lake Michigan.

Fact that an archaeologist can read the Tut-Ankh-Amen inscriptions, does not prove that he could decipher some of the letters the college boys write home.

Some of the schools are holding "arithmetic tournaments." If they don't look out the schools will get so interesting that you can't persuade the kids to go home.

TWO BARN BURNED DURING LAST WEEK One Near Deerfield and Other Near Libertyville; Total Loss Near \$5000

Two large barns in Lake county, one near Deerfield and the other at Libertyville, were destroyed by fire last week. Both were struck by lightning. The loss for both barns and their contents will exceed \$5,000.

The fire near Deerfield was on the E. B. Jordan farm which is located about a mile south of the village. There were several horses and cows in the barn but the owner managed to get them out. A large quantity of hay, grain and farm implements were destroyed. The Deerfield volunteer fire brigade, augmented by a bucket brigade rendered valiant service until the water in a cistern was exhausted. Difficulty was encountered in keeping the fire away from the house as it was swept in that direction by a strong wind.

The Other Fire
The other fire was on the Ray Moss farm, two miles east of Libertyville on the St. Mary's road. Mrs. Moss saw a bolt of lightning hit the barn. Two horses, three cows and many chickens were burned to death. A large quantity of hay and farm machinery also was destroyed.

Mr. Moss was at Libertyville when the fire broke out. He hurried home and with the aid of friends worked valiantly but the fire had obtained such a start that it could not be checked. This barn, the same as the other, burned to the ground.

DRIVES AUTOMOBILE THROUGH WILDERNESS Many Adventures Attend Trip of Brazilian Agency Manager in Country

Over a route no human being has ever before traveled, Francis K. Davidson, automobile manager of Joac Jorge, Figueiredo & Cia, Hupmobile distributors in Sao Paulo, Brazil, left that city recently in a daring effort to travel by motor to Buenos Aires, Argentina. The trip is being made to demonstrate to South Americans the capabilities of an automobile. The car

used is a stock 1924 Hupmobile touring.

Though the air line distance between the two cities is less than 2,000 miles, Mr. Davidson estimates he must pick his way over nearly twice that distance. He has already covered hundreds of miles through territory where there is no road, over mountain passes both high and tortuous, through dense swamps and forests of underbrush, across streams where bridges must be constructed, and through other sections impassable even to native ex-carts.

In the Brazilian state of Rio Grande do Sul, Mr. Davidson, according to reports traversing jungles impassable even to many animals. To secure passage through one spot he engaged a gang of 40 men and kept them working four days building bridges. With the primitive tools and materials—all that could be gathered nearby—ten were built, three of which broke down in crossing, nearly costing the intrepid driver and his two assistants their lives.

After the successful negotiation of this tortuous spot, Mr. Davidson reports keeping another gang of 15 natives working day and night to remove enormous rocks, between or over which it was impossible for a motor car to be driven.

"Except around main towns, even the few roads are largely impassable. Beyond these towns only ox carts can travel, and that with difficulty. Car working magnificently," he cabled from Porto Alegre, Brazil.

DENSE TILE BETTER THAN POROUS TYPE

There is no advantage in using porous tile through which water will percolate for drainage purposes, according to E. W. Lehmann, head of the Farm mechanics department of the College of Agriculture, University of Illinois. This is contrary to a belief that gained general acceptance in the early days of tile drainage.

The more dense either concrete or clay drain tile is and the less water that will pass into the walls of it, the more lasting and durable it will be, Lehmann explained. The water enters the tile at the joints and not through the walls.

VETERANS ORPHANS TO BE GIVEN CARE Children of World War Heroes To Be Aided by Legion Auxiliary Plan

Orphans whose fathers died in the hospitals or on the battlefield during the world war, and the children of wounded or disabled veterans are to have the best of care if the plans of the Illinois department of the American Legion auxiliary are carried out, according to Mrs. C. M. Dargan of Pontiac, Illinois, chairman of the child welfare committee.

Mrs. W. H. Morgan, state president of the auxiliary, is chairman of the national child welfare committee, and the Illinois units are preparing to help her in her work by making a careful survey of their territory and collecting all the information about children of veterans that is available.

Forty-seven orphans of war heroes

are now located at the state orphans' home, in Normal and five are at St. Vincent's Orphanage. Photographs, records, magazines and books have been supplied these children, and if possible the auxiliary hopes to purchase one and possibly two pianos in the future for the use and training of the musically inclined among its charges.

Mrs. J. L. Murray of Bloomington entertained all of the children of veterans in her home recently, and Mrs. B. R. Angstrom of Freeport is preparing to give the children in St. Vincent's Orphanage a big Easter party. Gifts of candy, flowers, books and toys from individuals have been showered upon the children, and the auxiliary takes pains to see that they are all remembered on their birthdays and at Christmas time.

The organization has taxed itself 10 cents per member to carry on the work, and collection of the tax will start May 1 and continue throughout the month.

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Very Best Rib Roast 2 1/2 lbs. for	\$1	Iceberg Head Lettuce the lb.	20c	New Beets the bunch	10c	Native Pot Roast 4 1/2 lbs. for	\$1
Rib Lamb Chops 2 lbs. for	\$1	Florida Celery the lb.	20c	Radishes the bunch	10c	Leg Gen. Spring Lamb 3 lbs. for	\$1
Porterhouse Steak 2 lbs. for	\$1	Rhubarb 3 lbs. for	25c	Green Onions the bunch	10c	Rump Corned Beef 3 1/2 lbs. for	\$1
Sirloin Steak 2 1/2 lbs. for	\$1	Fresh Tomatoes the lb.	29c	New Potatoes 4 lbs. for	25c	Best Pork Chops 3 lbs. for	\$1
California Oranges 38 for	\$1	New Dry Onions 3 lbs. for	25c	Green Beans the quart	32c	Swift's Pure Lard 4 lb. pails each	\$1
Juicy Grape Fruit 1 1/2 for	\$1	Parsnips the lb.	8c	Yellow Turnips the lb.	5c	Good Luck Oleomargarine 4 lbs. for	\$1
Puppy Biscuit 5 pkgs. for	\$1	White Turnips the lb.	8c	Cucumbers each	29c	Native Flank Steak 4 lbs. for	\$1
Dog Biscuits 5 pkgs. for	\$1					Miller & Hart Bacon 3 1/2 lb. piece for	\$1

NEW CABBAGE the lb.	5c	For Friday Only Fancy White Potatoes 52 pounds for	\$1	For Friday Only Strictly Fresh Eggs the dozen	27 1/2c	Best Elgin Creamery Butter, the lb.	43c
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Golden Wedding Pears 4 cans for	\$1	Fancy White Fish 2 lbs. for	\$1	Tryit Pink Salmon 6 cans for	\$1	Fresh Lima Beans 5 cans for	\$1
Loganberries 3 cans for	\$1	Fresh Lake Trout 2 1/2 lbs. for	\$1	Del Monte Red Salmon 3 cans for	\$1	Hominy, No. 3 can 5 cans for	\$1
Black Berries 4 cans for	\$1	Fresh Herring 5 lbs. for	\$1	Wet Shrimp 5 cans for	\$1	Sweet Heart Asparagus Tips, 2 cans for	\$1
Black Raspberries 3 cans for	\$1	Salmon Steak 2 1/2 lbs. for	\$1	Imported Sardines 7 cans for	\$1	American Family Soap 15 bars for	\$1
Red Raspberries 3 cans for	\$1	Halibut Steak 2 1/2 lbs. for	\$1	Celebration Salmon, med. red, 4 cans for	\$1	Kitchen Klenser 14 cans for	\$1
Grape Fruit Meat 3 cans for	\$1	Smelts 3 lbs. for	\$1	Curtis Tuna Fish 3 cans for	\$1	Lakeside Tiny Green Beans 3 cans for	\$1
Sweetheart Ex. Large Pears 2 cans for	\$1	Cod Fish Middles 3 1/2 lbs. for	\$1	Gorton's Fish Balls 4 cans for	\$1	Lakeside Choice Green Beans 4 cans for	\$1
Suburban Apricots 5 No. 3 cans for	\$1	Smoked White Fish 3 lbs. for	\$1	B & M Fish Flakes large, 6 cans for	\$1	Eureka Green Beans 5 cans for	\$1
Amazon Peaches 5 No. 3 cans for	\$1	Finman Haddie 4 lbs. for	\$1	Royal Ann Cherries 3 cans for	\$1	Solid Pack Tomatoes 8 cans for	\$1
Del Monte Peaches 3 cans for	\$1	Salt Holland Herring 9 lbs. for	\$1	Tall Green Asparagus 3 cans for	\$1	Early June Peas 8 cans for	\$1
Del Monte Pears 3 cans for	\$1	Salt Mackerel 3 1/2 lbs. for	\$1	Lomax Gingerale & Root Beer 12 large bottles	\$1.57	Sweet Corn 8 cans for	\$1
Sweetheart Peaches 3 cans for	\$1	Yellow American Cheese 3 lbs. for	\$1	Morand Gingerale & Root Beer 12 large bottles	\$1.57	Beauty Baked Beans 8 cans for	\$1
Sweetheart Cherries 3 cans for	\$1	Blue Berries 2 cans for	\$1	Cliquot Club Gingerale 12 bottles net	\$2.05	Sweetest of all Yellow Bantam Corn 6 cans for	\$1
Red Pitted Cherries 4 cans for	\$1	Sliced Pineapple No. 2 can, 4 cans for	\$1	Morand Gingerale & Root Beer 12 sm. bots., net	85c	Sweetheart County Gentleman Corn 5 cans for	\$1
Grated Pineapple 4 cans for	\$1	Grated Pineapple No. 2 can, 4 cans for	\$1	Green River 12 bottles, net	\$2.00	Sweetheart Kidney Beans 7 cans for	\$1
Strawberries 3 cans for	\$1	Hunt's Staple Peaches Halves, 3 cans for	\$1	Budweiser Near Beer 12 bottles net	\$1.55	Sweetheart Tomatoes No. 3 cans, 4 for	\$1
		Golden State Peaches Sliced, 3 cans for	\$1	Beachnut Dry Gingerale 12 bottles	\$2.05		