### SEX LIFE OF GERMS

By HOWARD W. BLAKESLEE Associated Press Science Editor

By producing bacteria with di- hereditary changes. After such gestive troubles, Yale Univer- a mutation the germ lost its sity micro-biologists have found ability to make either one of some of the first reliable evi- the vitimims it needed or a prodence of sex life among germs. tein acid necessary for growth.

any and micro-biology.

are single cells of tissue. Each two into four, and so on. cell is shaped like a rod. Scien- Next, some coli germs that had tists have supposed there was different digestive troubles were no sex life in simple organisms introduced into the colony. and that sex begins higher up Thereup sex made its appearthe scale.

But the Yale evidence indi- The coli bacteria that came these coli cells may unite. In rods, had given them the abilithat union two rods may fuse, ties of both and one of these That fusing may be like the was the nutritional ability that union in human reproduction, had-been missing from one partwhere children come from the ner.



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by the Government of British Columbia \*\*\*\*\*\*\* fusion of two single cells, one from the father, the other from the mother.

The coli germs got their digestive troubles from exposure to X-rays, ultra-violet or suntan light or wartime mustard gases. Any of these exposures NEW HAVEN, Conn. (AP) - caused mutations, which are

The studies were made by Dr. The bacterium so altered be-Edward L. Tatum, professor of came the parent of a new strain, micro-biology, and Joshia Led- all deficient in the same manerberg of the department of bot- ner. This parent didn't have any sex. It reproduced simply by di-These bacteria, escherchia coli, viding into two rods, and those

cates that under some circum- from this sexual fusion no longstances, such as trying to cope er had the digestive trouble. Inwith nutritional troubles, two of heritance, from both parent

Altogether, the Yale experimenters produced about 40 different kinds of hereditary deficiencies and experimented with the unions that would restore the lost abilities. With so many different hereditary traits, they reduced the possibility that anything except a primitive type of sexual fusion could account for the restorations.

In this sex life the germs follow a principle that is supposed to account for the origin of all sex—namely that the contributions of two parents produce a better animal than those from

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would start on November 15 and that 150 men would be employed at the mill at Massett Inlet. Between 700 and 800 men would be employed in logging by spring, he said.

October 16, 1922

er be put into service between

purchase of a former United

States Navy submarine chaser.

F. L. Buckley, head of the

Police Commissioner S. D. Macdonald took exception to statements made in the south that Prince Rupert was "wide open." Morality conditions in the city were cleaner than in many other cities; taking population into account, he said, at a meeting of the police commis-

The first shipment of salmon from Prince Rupert to a foreign port had been brought to the city from the cannery at Namu. The salmon was to be shipped aboard the steamer Crown of Galicia to Liverpool. It consisted of 5,000 cases and had been especially prepared for export. Shipping men predicted that it would be the beginning of an important branch of trade that would make Prince Rupert an important port within four or

H. F. McRae, D. H. Morrison, George Bryant and W. S. Fisher had a harrowing experience when the launch Shawatlans, in which they had started out on a hunting trip, left her propeller near Digby Island. Anchoring the launch, they set out in a skiff to row back to the city. However, rough seas forced them ashore on Wolf Island where they camped for the night. They were rescued by W. E. Williams and A. M. Manson

Advertise in the Daily News

who went out to seek them.

### PRINCE RUPERT Garbage System --YEARS AGO (Continued from Page One)

fact that, while there are about collections were made, even at The council of the Board of 2,200 telephones in the city, present rates, it would increase Trade decided to endorse a prothere are only 1,366 garbage revenue from its anticipated posal by A. Eckley that a steamcollection points, including busi- level of \$10,897 to \$16,266, which ness establishments.

Prince Rupert, Stewart and in-A breakdown of the number tures. termediary points for passengers and freight. He had in mind the ust 30 is as follows:

Massett Timber Co., who arriv- eraging \$4 a month) 107.

ed in the city from California, said that logging on the islands 35 cents a month) 1,166.

Other business pick-ups (av- a month for residents, with 030 annually, while expenditures small considerations for apart- are estimated at \$26,000. This

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would at least equal expendi- cellections, extra charges would of garbage accounts as of Aug. Key to the change in the fin- fied quantity of garbage. ancial picture is a recommenda. Revenue which would be rea-Small business pick-ups (av- tion that collection rates be lized from complete collections erarging 70 cents a month) 93, boosted from 35 cents to 60 cents at the new rate would total \$28,-

The report states that there | Increases in business rates are 2,230 known possible resi- would place cafes and large food dential collection points and 230 stores on a \$8.50 monthly rate. commercial places and, if these This alteration would run as high as \$15 monthly for large industrial plants, down to \$2 monthly for barber shops.

In both domestic and business be made for more than a speci-

Domestic pick-ups (averaging ment houses where cans are would alter the current deficit into a revenue of \$2,000 annually

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