



Reports

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## Report on green croaker infection of lower Chesapeake Bay in July, 1943

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H.S. Daves, 1943

Report on Green Croaker Infection of Lower Chempsake Bay in July, 1943 of the

Virginia Fisheries Taboratory of the Commission of Fisheries and Gollege of Filliam and Mary

OF THE
VIRGINIA FISHERIES
LABORATORY

For three weeks provious to July 15, local catches of large crockers were reported to have a high percentage that showed a green coloration of the mid-ventral surface which, under normal refrigeration conditions, became intensified.

On July 15th., six fish were examined - one small fresh specimen, normal, taken from landing best - number 1; two large fifteen-inch fish, normal, that had been in storage for 3 days - numbers 2 and 3; three large fish with slight external discoloration after three days in storage; numbers 4, 5, and 6.

Observations on Croskers obtained through the courtesy of Wr. Forrest, of Hawkins and Forrest Fish Co., Maspton, Va.

- I Specimen Number 1 a medium sined croaker, unaffected, stomach empty.

  Specimen Number 2 a fifteen-inch fish, unaffected, stomach empty.

  Specimen Number 2 a fifteen-inch fish, unaffected, stomach contained partially digested remains : length 2 inches) of small fish, one of the herring family.
  - Specimen <u>Number L</u> a large croaker. Slightly green on juder surface when first removed from cold storage plant (after three days storage) and increasingly so when examining 2 hours later (having been kept surrounded by ice).

    Large fish in as each, digested too much to parmit identification. Incards have a bad oder. Consition of several internal organs, abnormal. Eachy cavity bleated.

- Specimen Number 5 large-sized, green fish as was number 4. Stomach

  contained fish digested beyond recognition. Appa
  rently it was over 4 inches in length. Spleen and

  liver abnormal on the surface but not below the surface of the liver.
- Specimen <u>Number 6</u> large-sized, green fish in bad condition. Stomach contained remains (5 inches long) of a partly digested fish which is considered to be a member of the herring family probably membadden. Spleen and liver abnormal on the surface but not under the surface layer of the liver.
- II A second lot of fish was examined at Yorktown and similar observations made as to the condition of the affected and unaffected fish.
- III A third sample of about six specimens was sent, through the courtesy of Mr. Forrest to Dr. H.S. Davis, fish pathologist in Kearnesville, West Va. who kindly tested for bacterial infection. Dr. Davis reported "it appears very doubtful that becteris are the cause of the trouble".

## Remarks

The abnormal condition observed is a green coloration of the larger croakkers originating from decomposition in the digestive tract. It may be confinto\_stomach, or extend to the organs of the body cavity, or to the lining of the
wall of this cavity or in advanced stages of infection it may be visible on the
outside surface of the body wall on the under surface of the fish.
Intion was found between the size of the croakers, the size of the
fish in the stomach and the state of decomposition of the field fish in the stomuch (probably menhaden).

No evidence of disease was found and, according to Dr. Davis, no bacterial

infection is appearent.

Fish with empty stomache or those containing well digested fish were not affected.

## Conclusion

It is concluded that the trouble is a local one, originating in the digestive tract and caused by the food which the croaker is unable to completely digest. The food fish is one of the harring family most likely menhaden.

Yorktown, Virginia August 6, 1943