

Too Clear Water



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INTRODUCTION

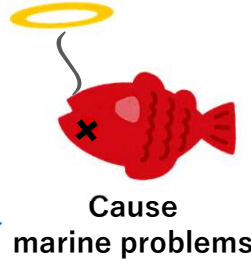
Even sewage water is nearly sterile.

Decrease



However

TOO CLEAR



The number of red tide outbreaks



(The data is based on ※ 1)

Examine to what extent the water should be purified with

suppress the red tide outbreaks

hardly affect marine life



CATCH

Oysters

Especially Poor

Oysters: 188,108t (1980) → 113,783t (2016)

40% DECREASE



Very serious problem

The catch of oysters in the Seto Inland Sea



(The data is based on ※ 2)

(Year)

Phosphorus

Phosphorus: nourishment for marine life and phytoplankton

a constituent that makes shells

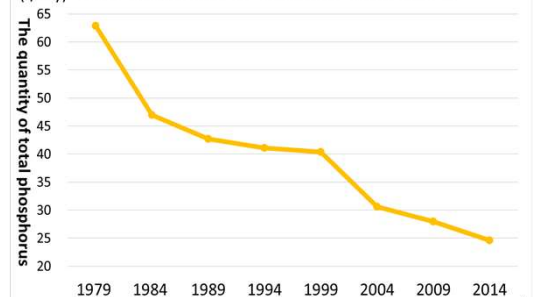
Removal of phosphorus

Decrease of marine life

CORRELATION

Harmful to marine life

The quantity of total phosphorus



(The data is based on ※ 3)

(Year)

CONCLUSION

The best year in terms of both catch and red tide

1987

Phosphorus content

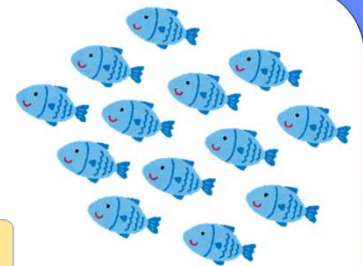
45t/day(1987)

return

25t/day(2014)

$$(25/45) \times 100 \div 56\% = (100 - 44\%)$$

Removing phosphorus from water



44% of the advanced water treatment facility should be stopped.

Reference

- ※ 1 「赤潮の発生状況」.せとうちネット. <https://www.env.go.jp/water/heisa/heisa_net/setouchiNet/setsu/g2/g2cat01/akashio/index.html> .2020/11/17
- ※ 2 「水産業の推移」.せとうちネット. <https://www.env.go.jp/water/heisa/heisa_net/setouchiNet/setsu/g2/g2cat02/suisangyou/index.html> .2020/11/17
- ※ 3 「発生負荷量の推移」.せとうちネット. <https://www.env.go.jp/water/heisa/heisa_net/setouchiNet/setsu/g2/g2cat03/tokusohou/hasseifuka.html> .2020/11/17