

INSTITUT SCIENTIFIQUE ET TECHNIQUE
DES PECHES MARITIMES
rue de l'Île d'Yeu
B. P. n° 1049
44037 NANTES CEDEX

IPM.3 Pollutions

IFREMER
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A N N E X E S

ETUDE DES EFFETS D'EFFLUENTS DE FABRICATION DE DIOXYDE
DE TITANE SUR LE DEVELOPPEMENT LARVAIRE D'UN CRUSTACE
DECAPODE : Palaemon serratus (PENNANT)

par Patrick LASSUS et Pierre MAGGI

Etude réalisée en collaboration avec le Centre National
pour l'Exploitation des Océans (Contrat n° 74/941).

Nantes, le 28 février 1977

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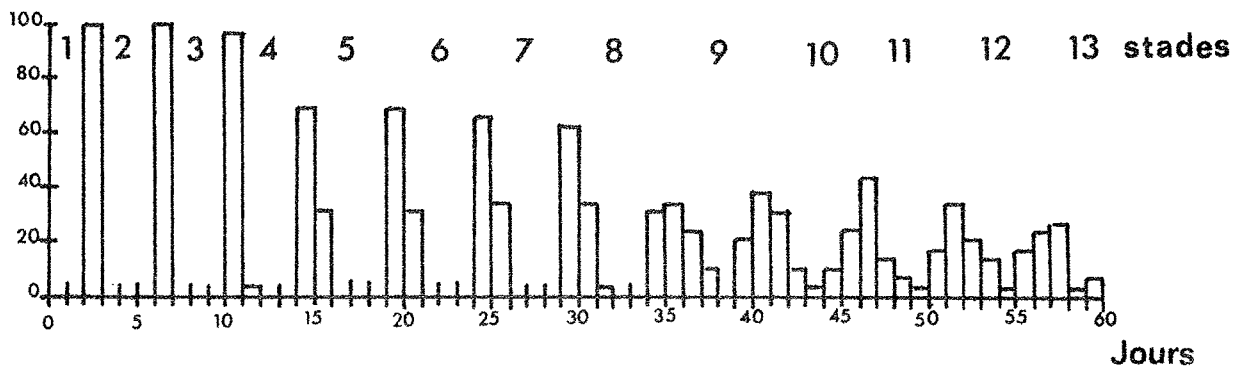
Etude réalisée en collaboration avec le Centre National
pour l'Exploitation des Océans (Contrat n° 74/941).

Nantes, le 28 février 1977

larves planctoniques

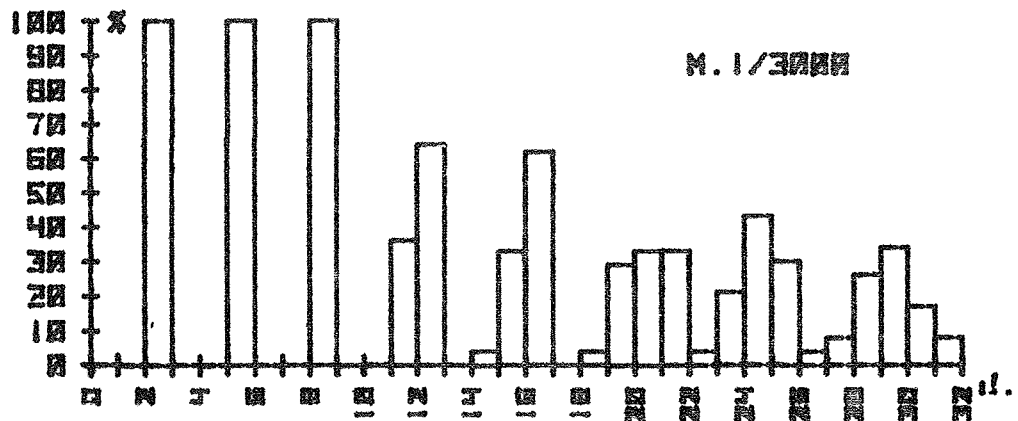
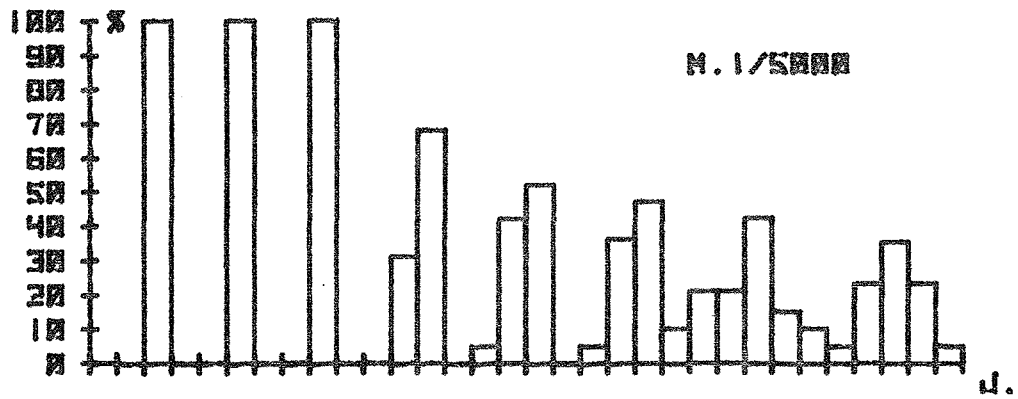
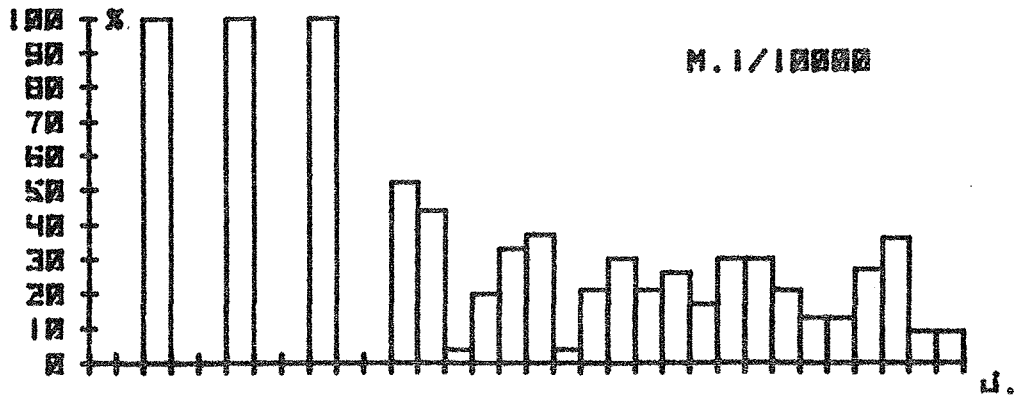
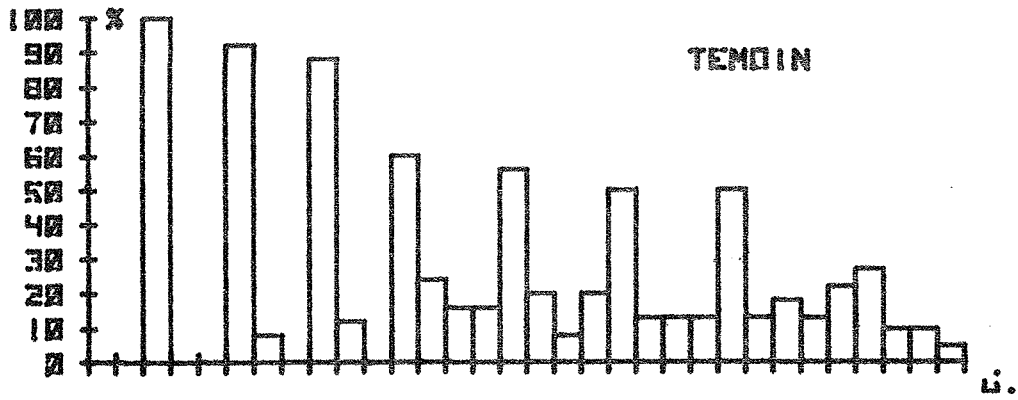
post-larves

Pourcentages
de mues

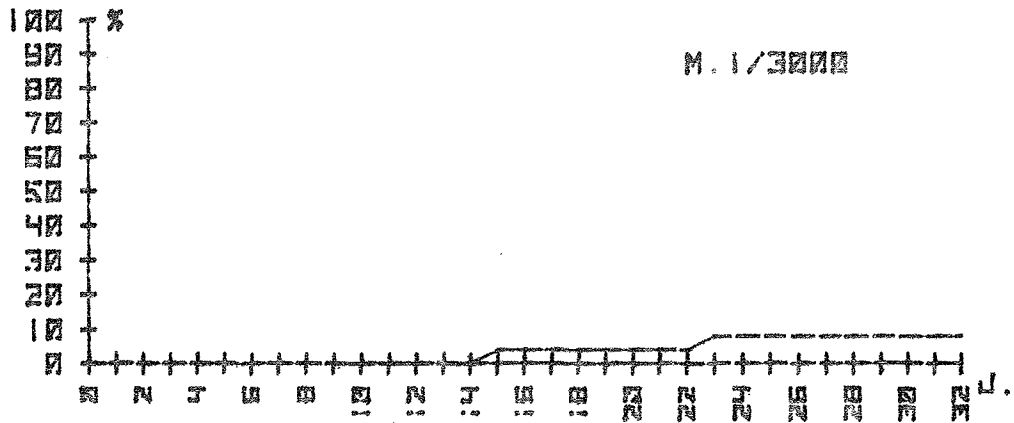
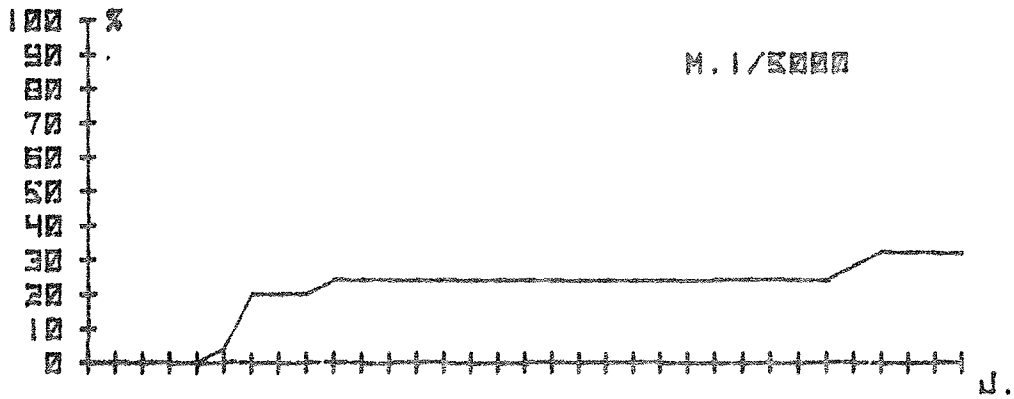
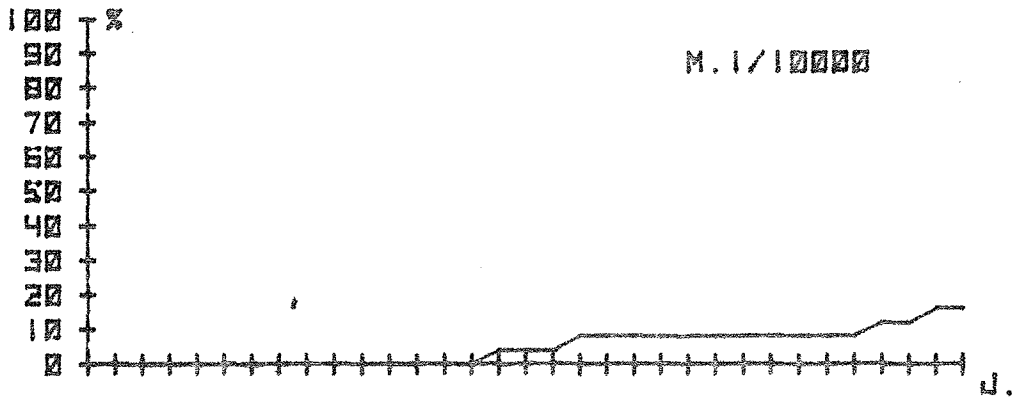
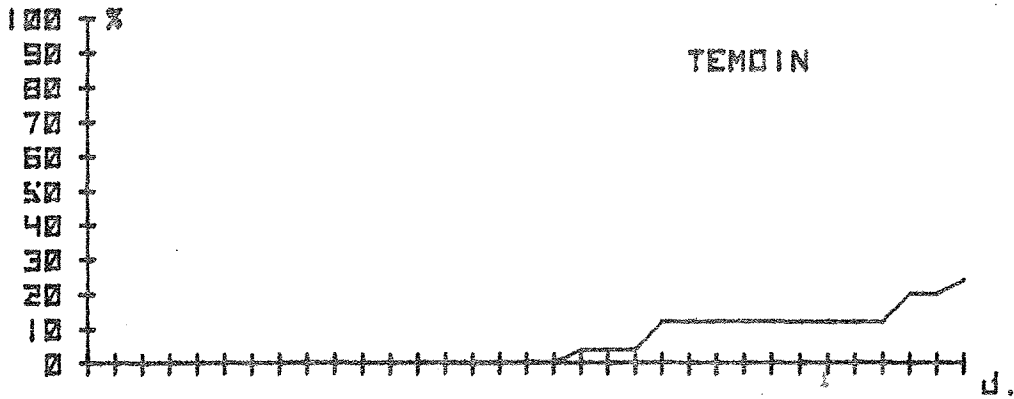


Palaemon serratus

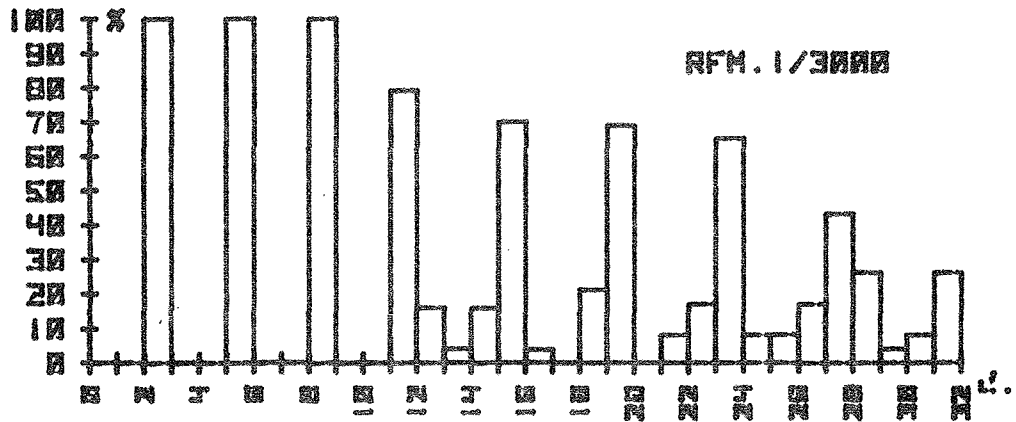
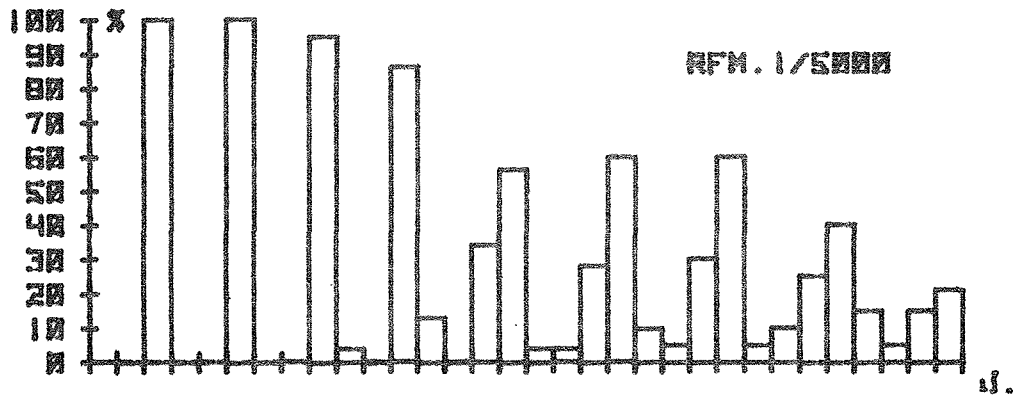
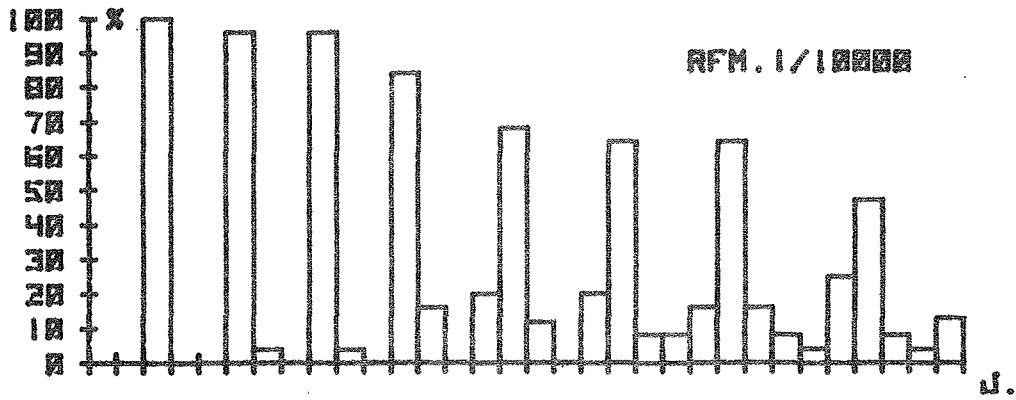
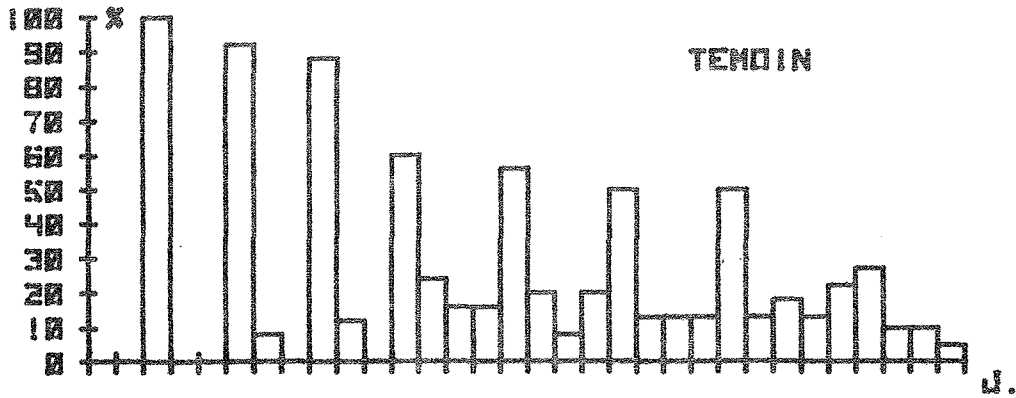
Stades larvairés



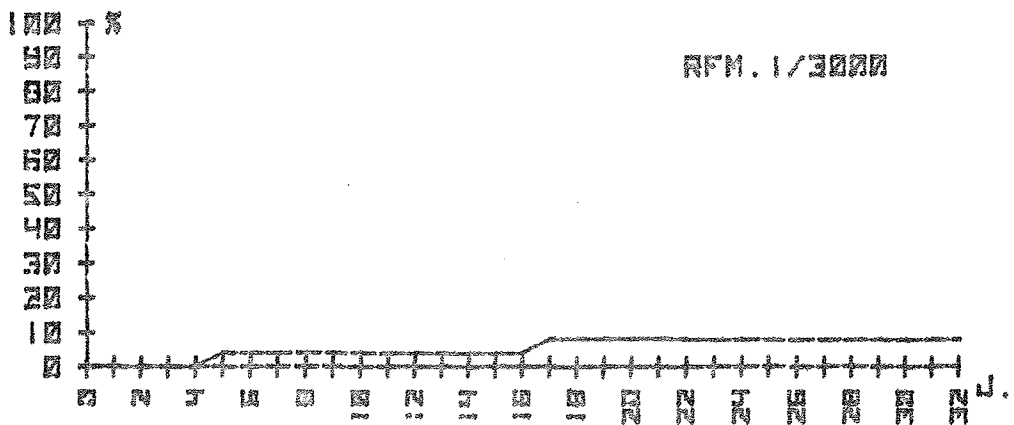
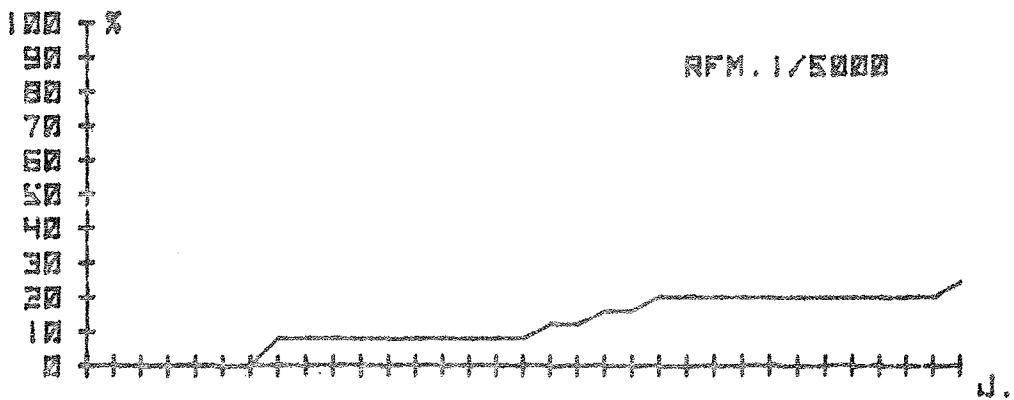
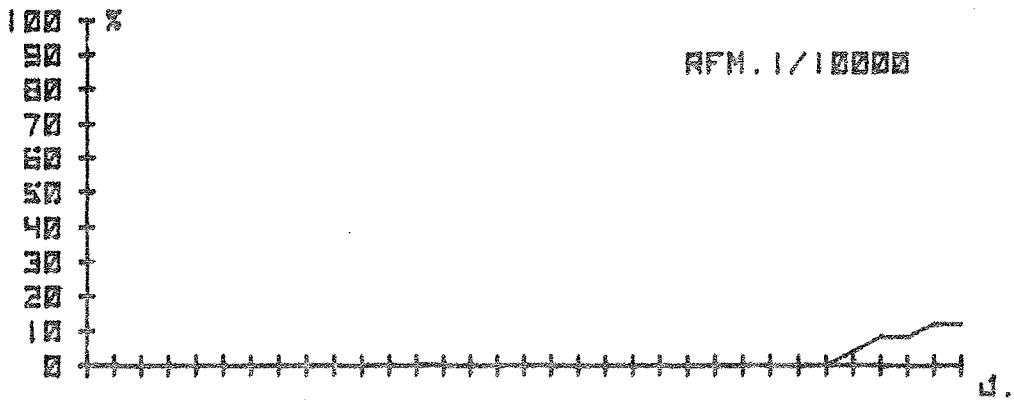
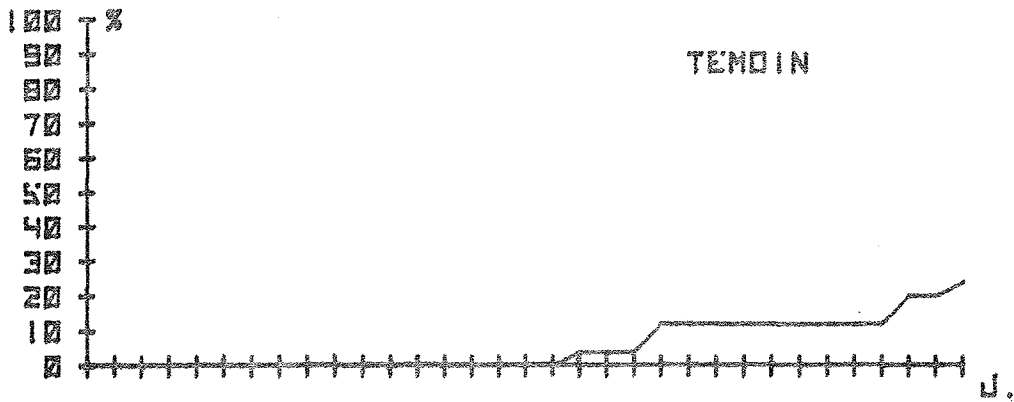
EXPERIENCE 1 :
POURCENTAGES DE MUES DE P. SERRATUS AU COURS DU TEMPS



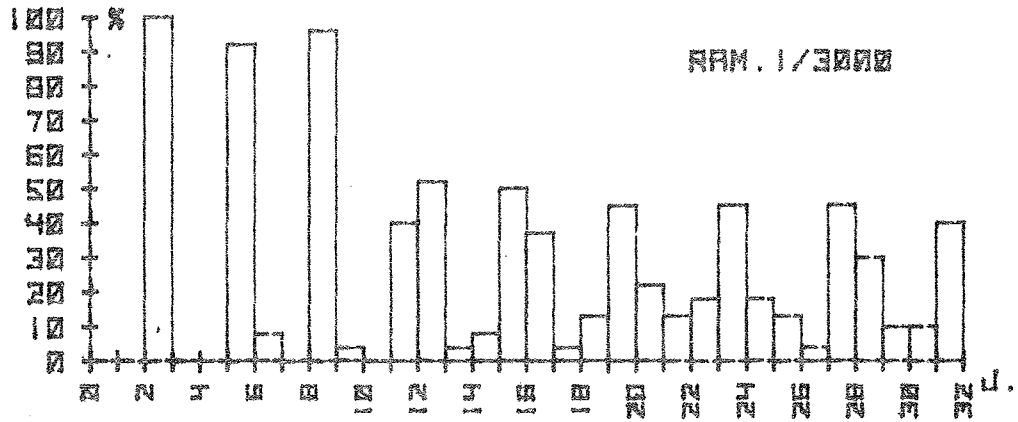
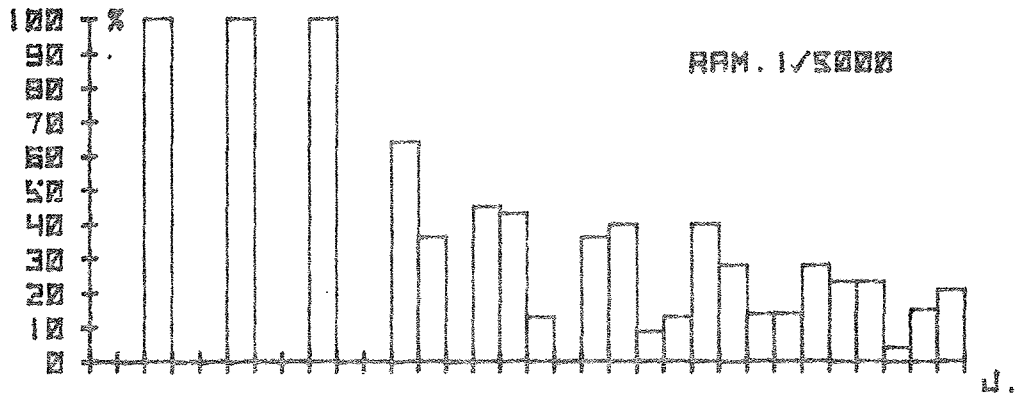
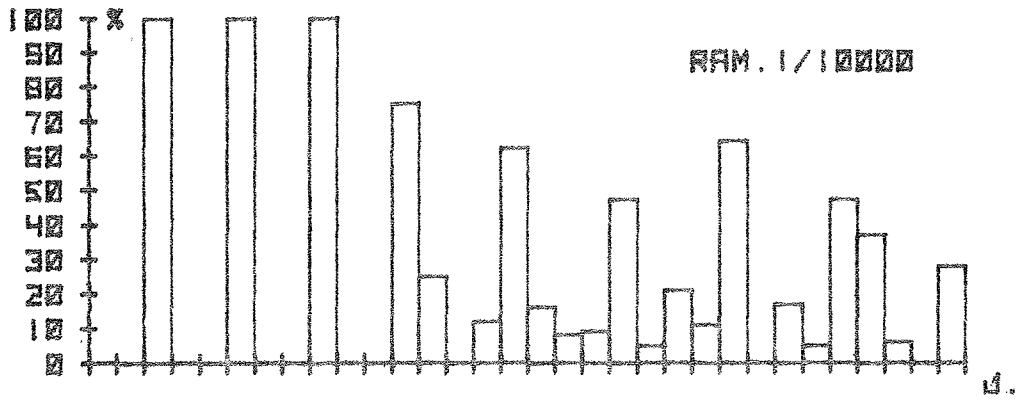
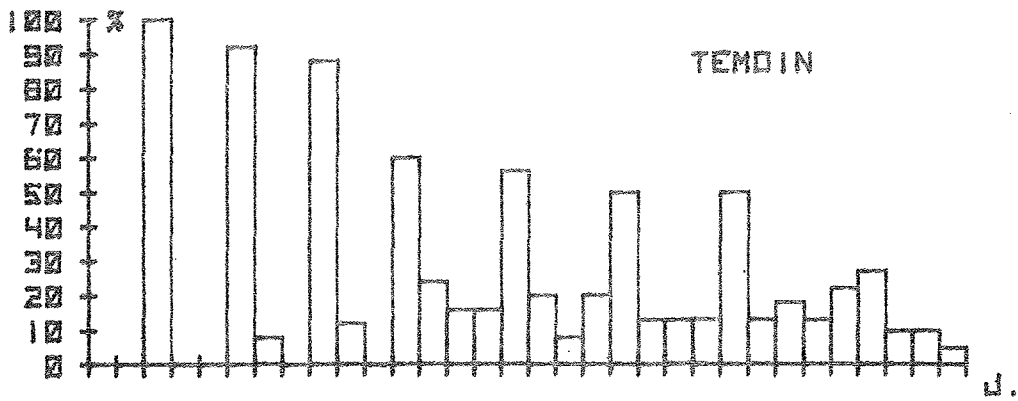
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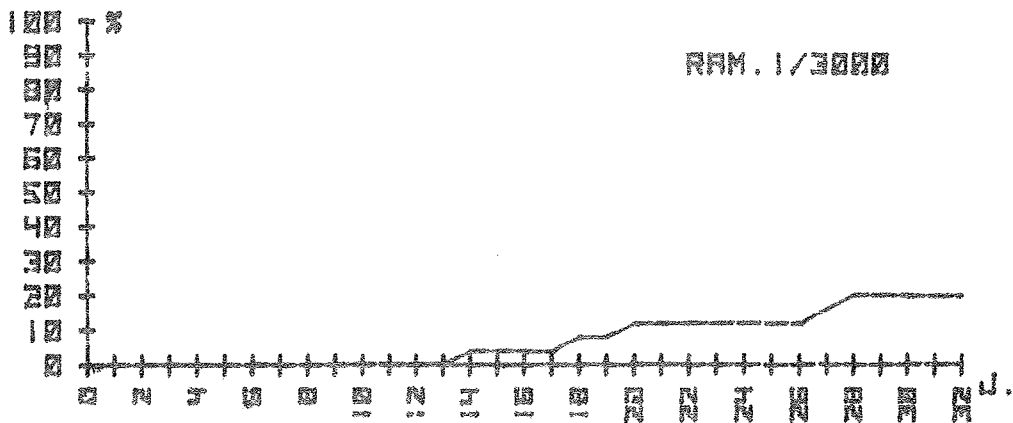
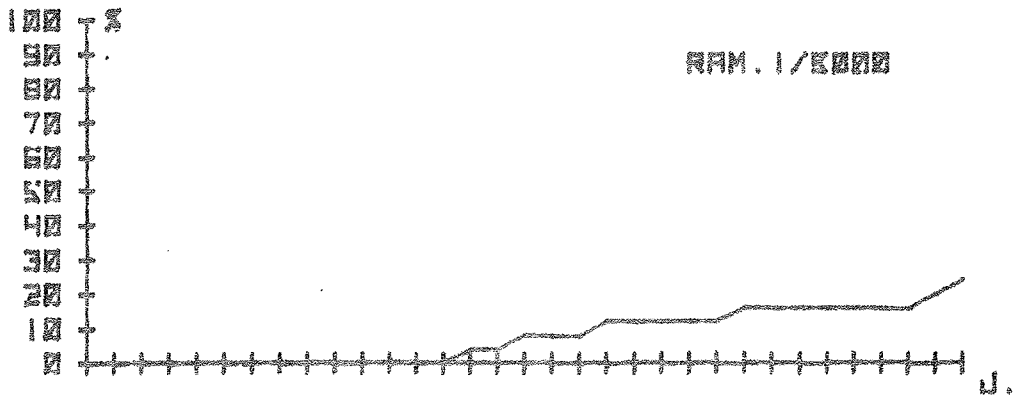
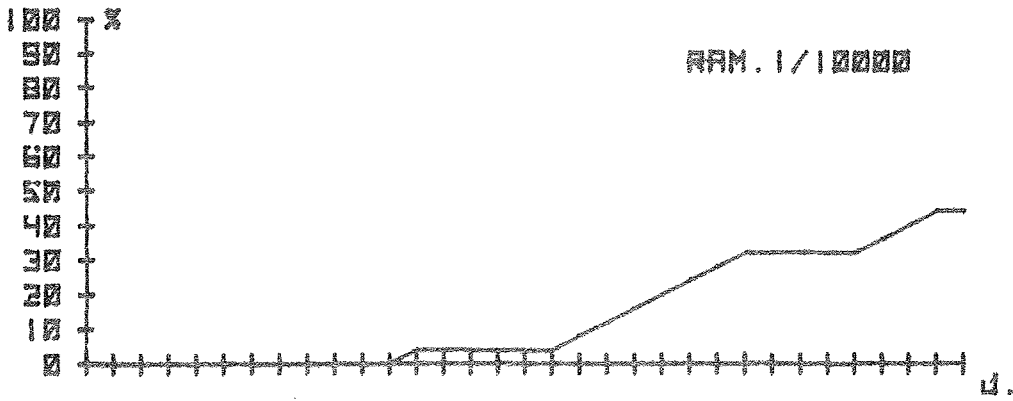
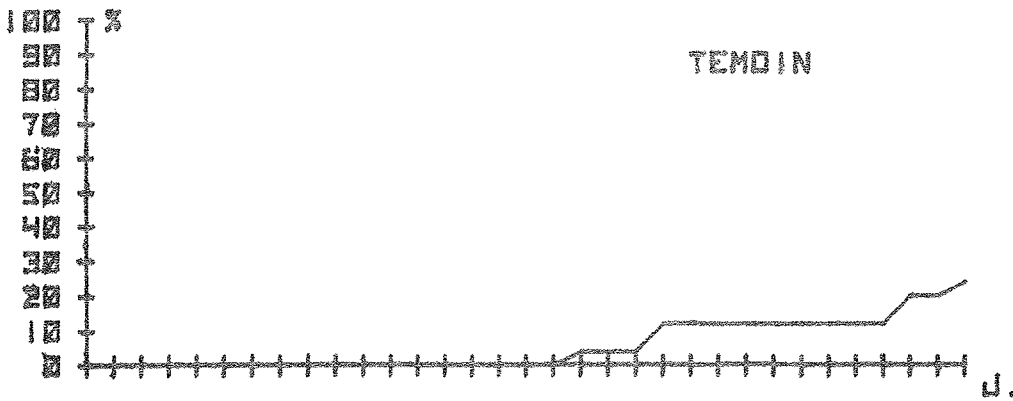
EXPERIENCE I :
POURCENTAGES DE MIES DE P.SERRATUS AU COURS DU TEMPS



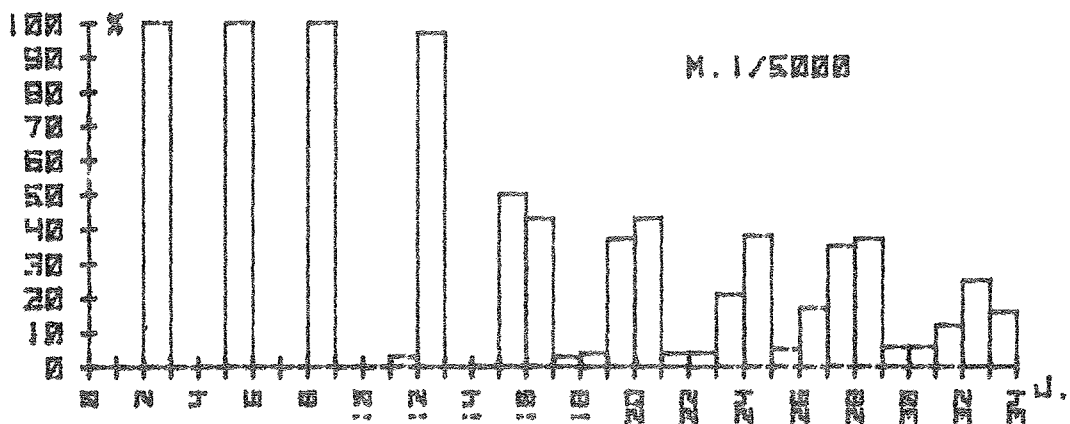
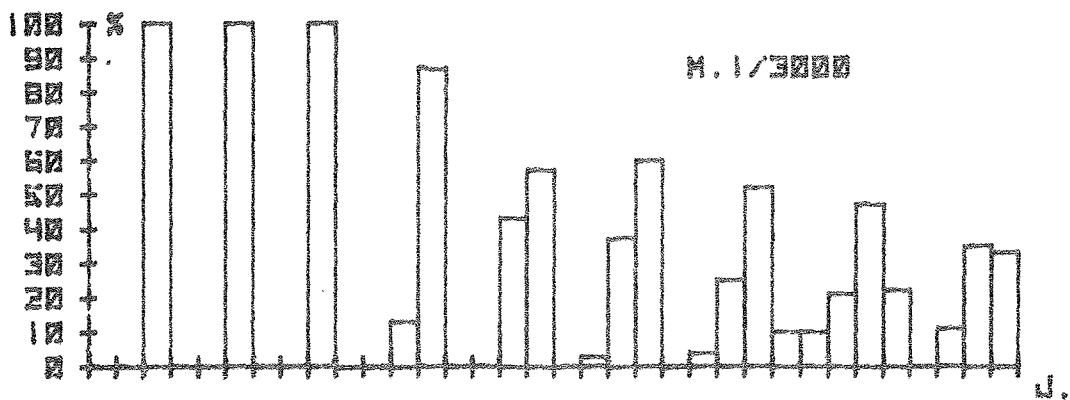
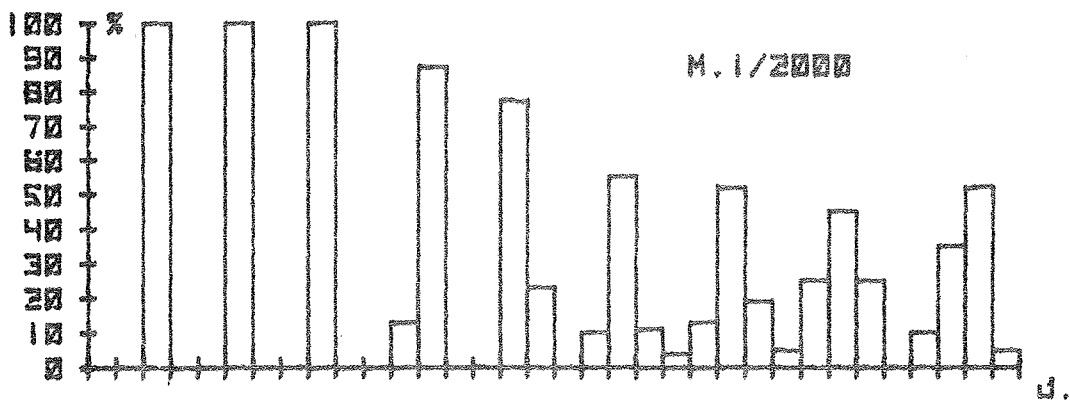
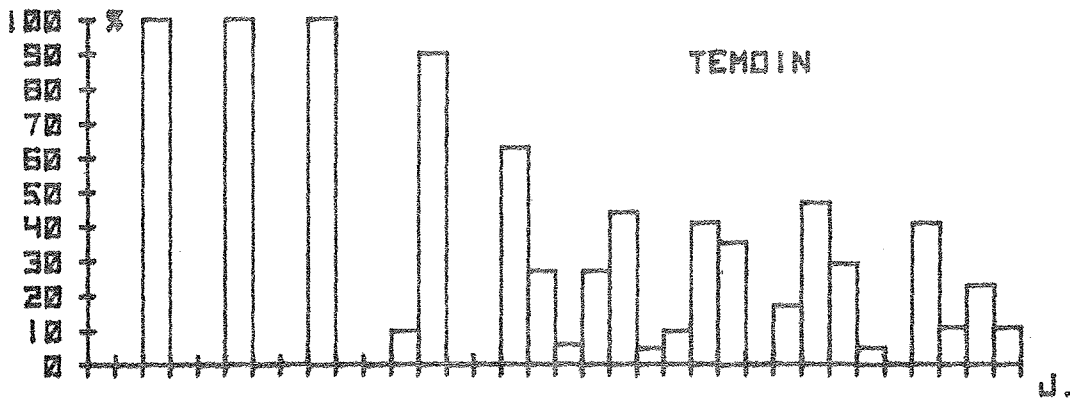
EXPERIENCE I :
POURCENTAGES DE MORTALITES DE P. SERRATUS AU COURS DU TEMPS



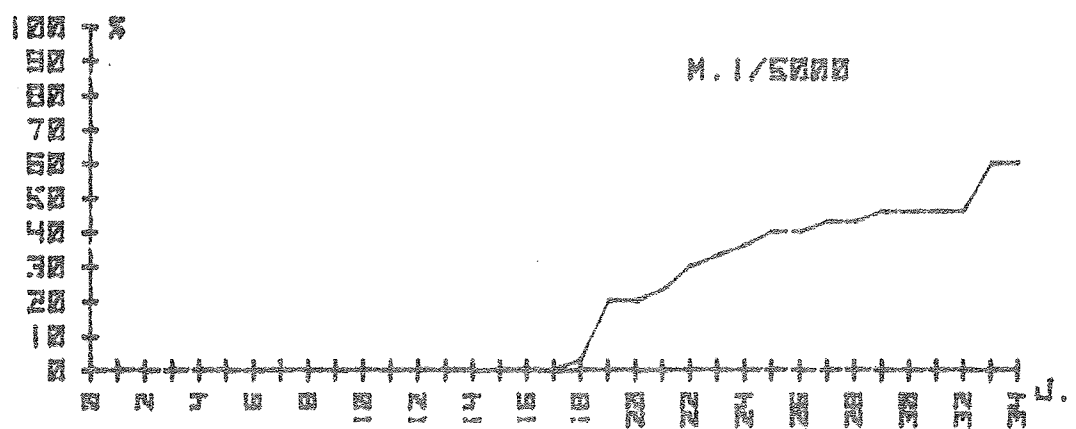
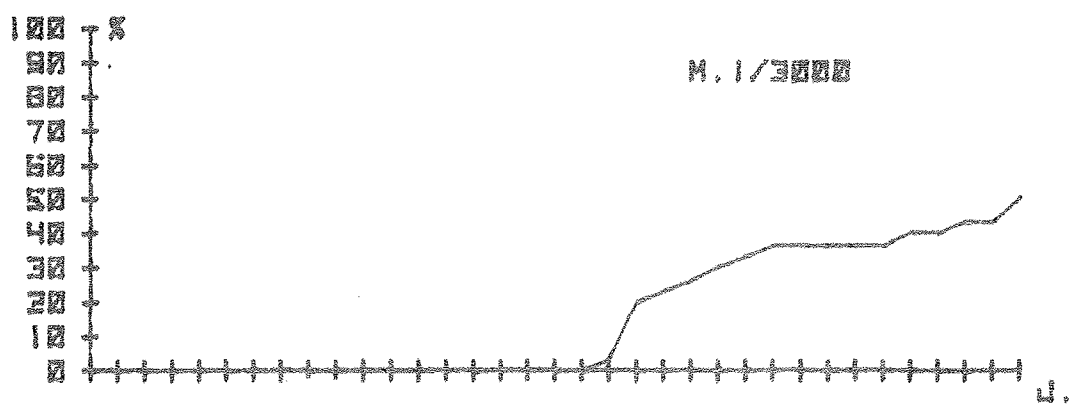
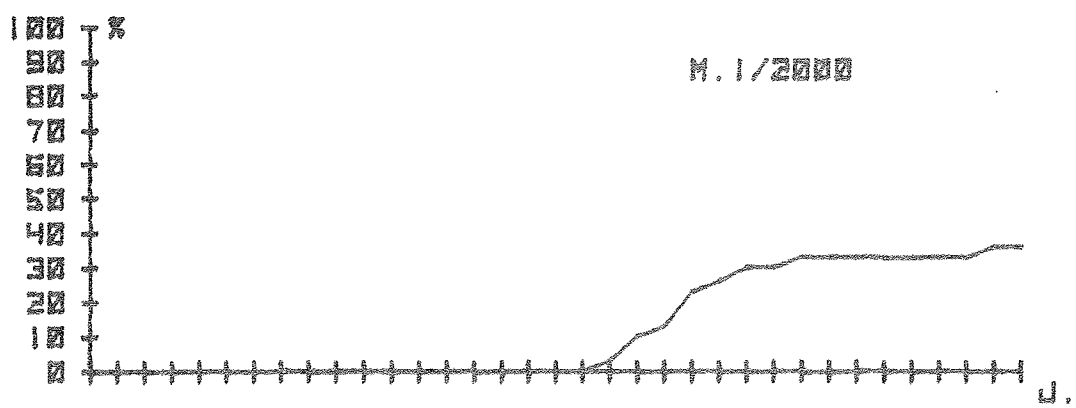
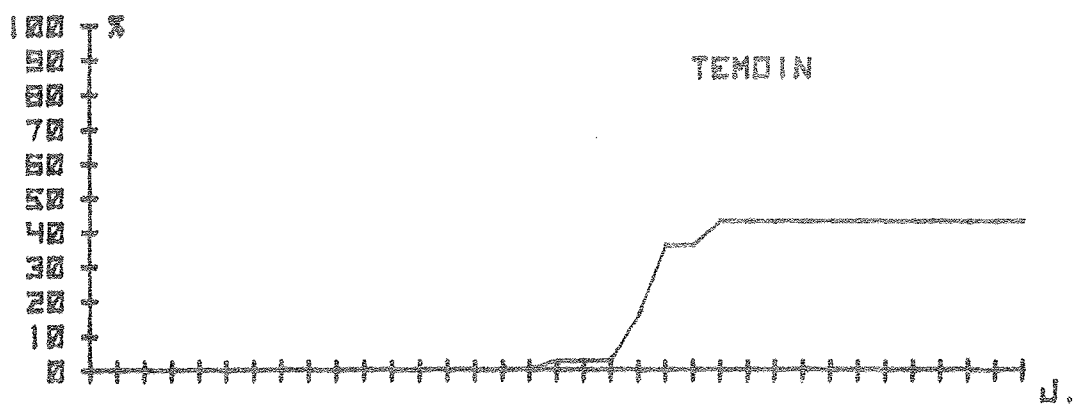
EXPERIENCE I :
POURCENTAGES DE MUES DE P. SERRATUS AU COURS DU TEMPS



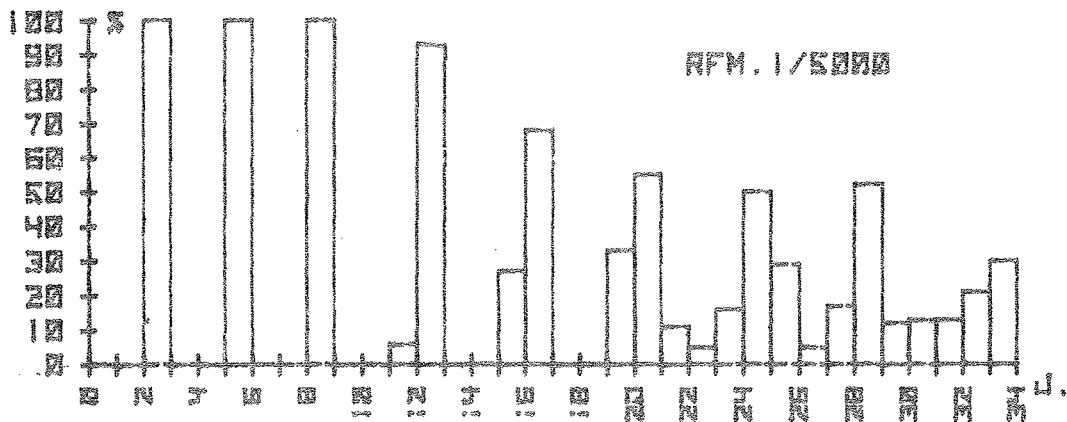
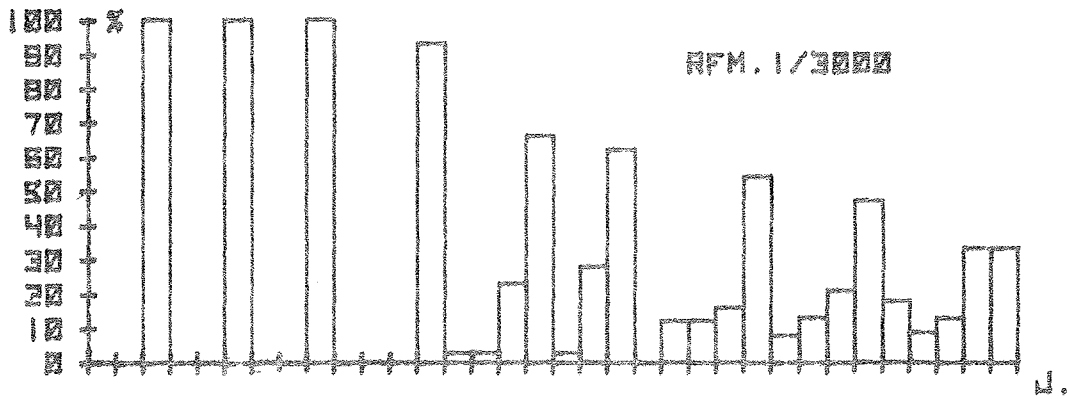
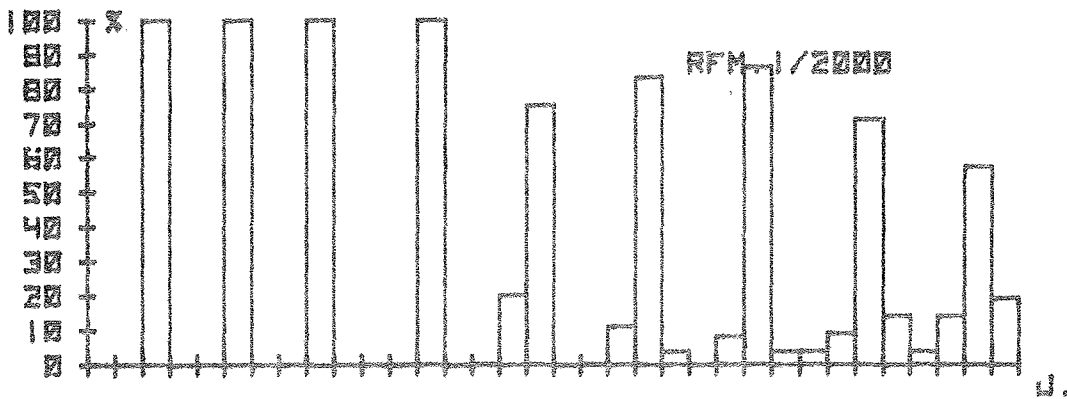
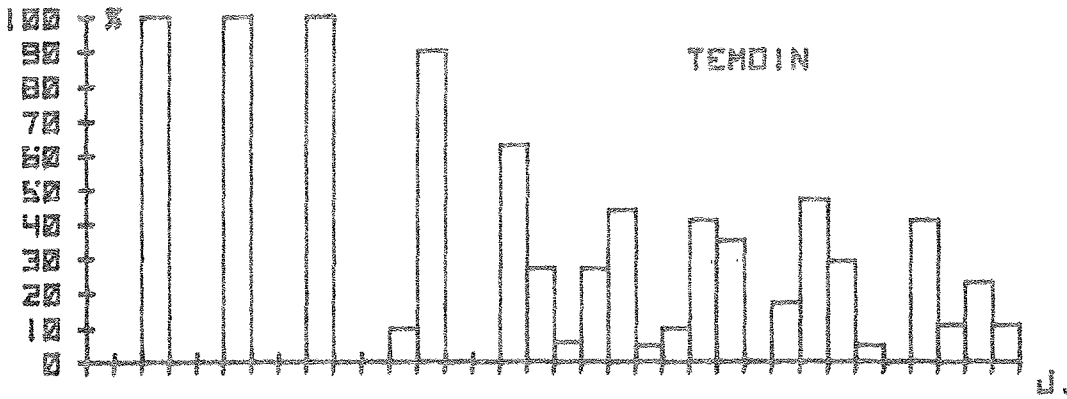
EXPERIENCE 1 :
POURCENTAGES DE MORTALITES DE P. SERRATUS AU COURS DU TEMPS



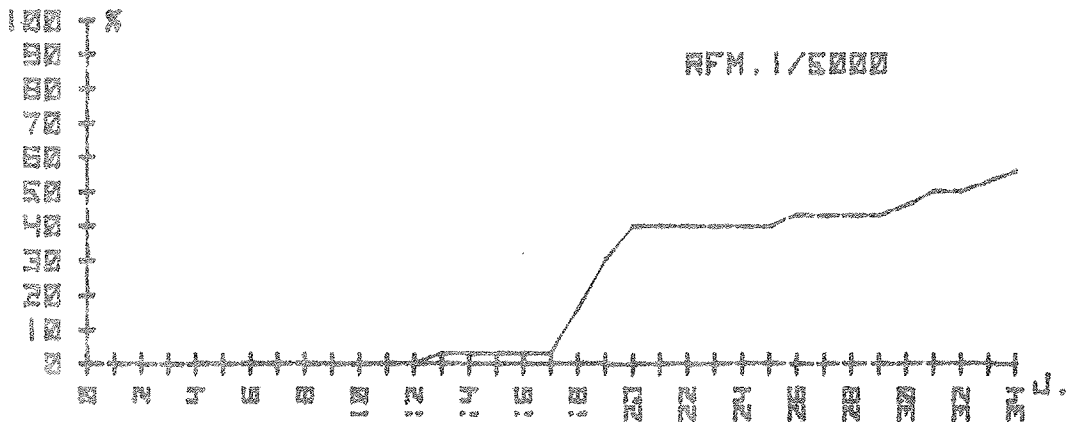
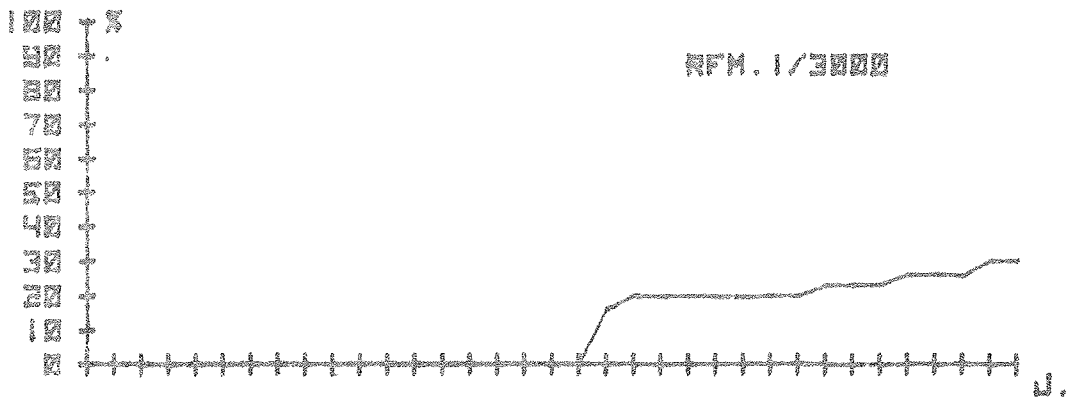
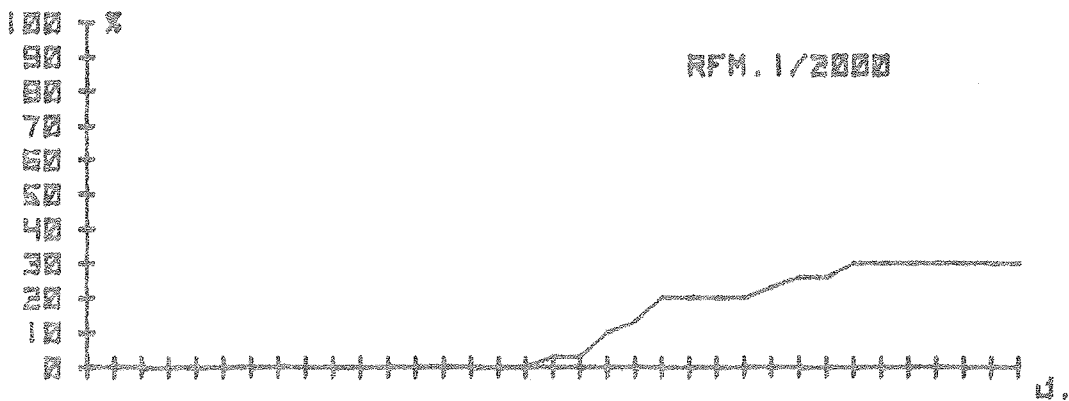
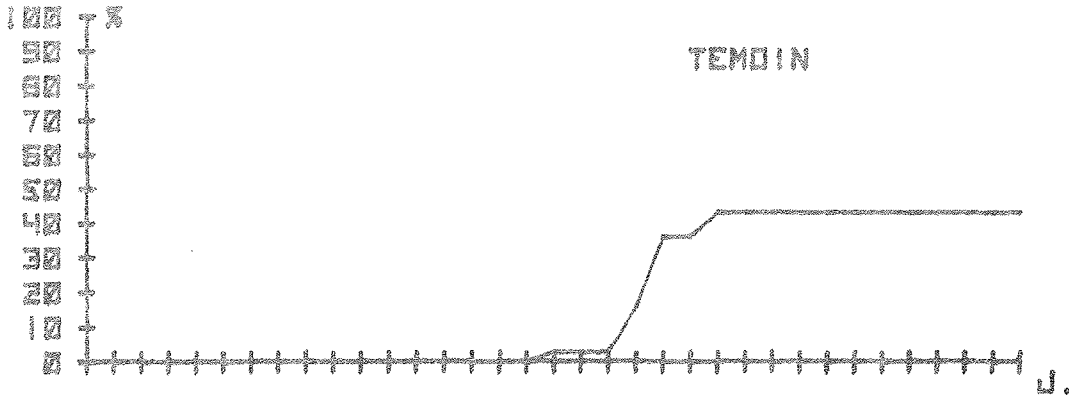
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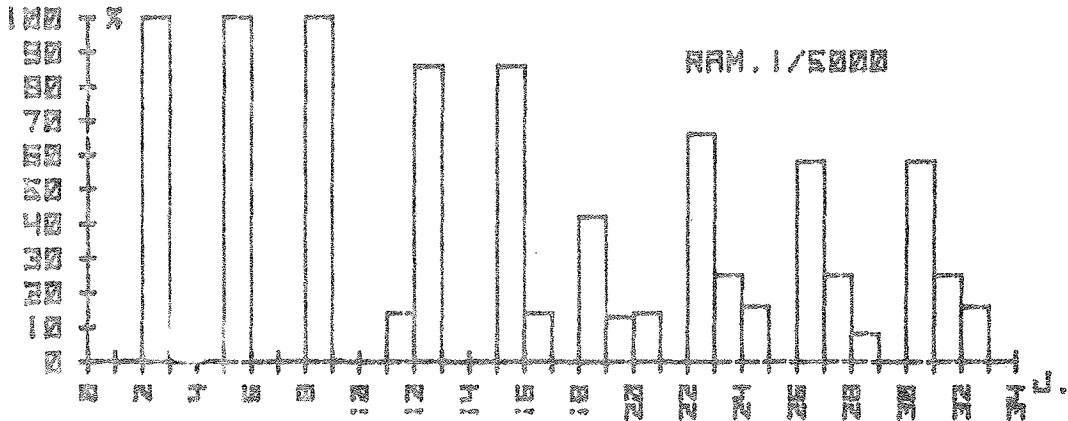
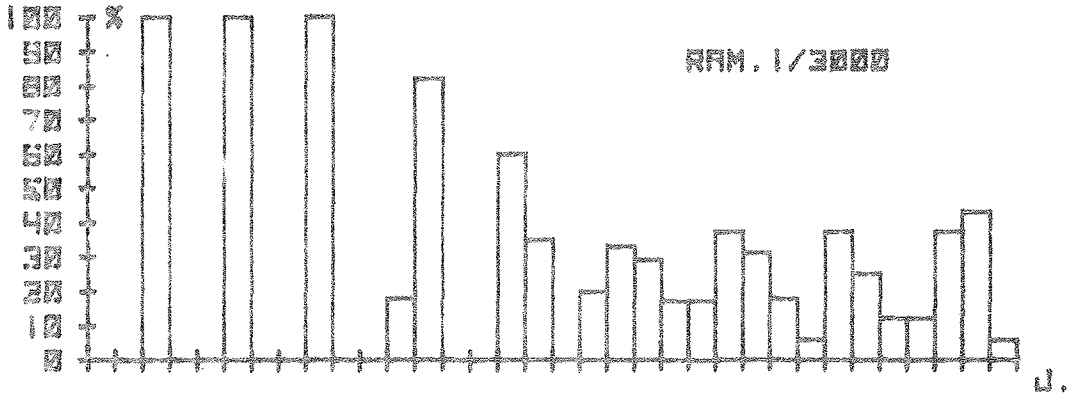
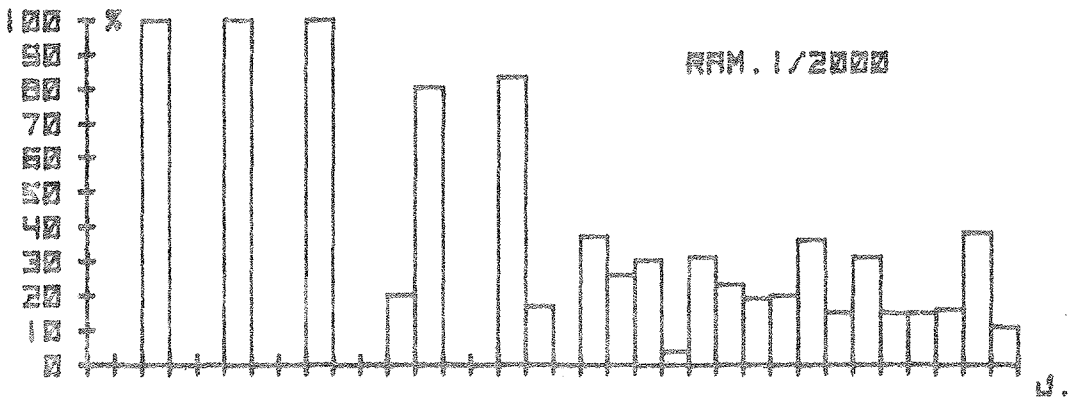
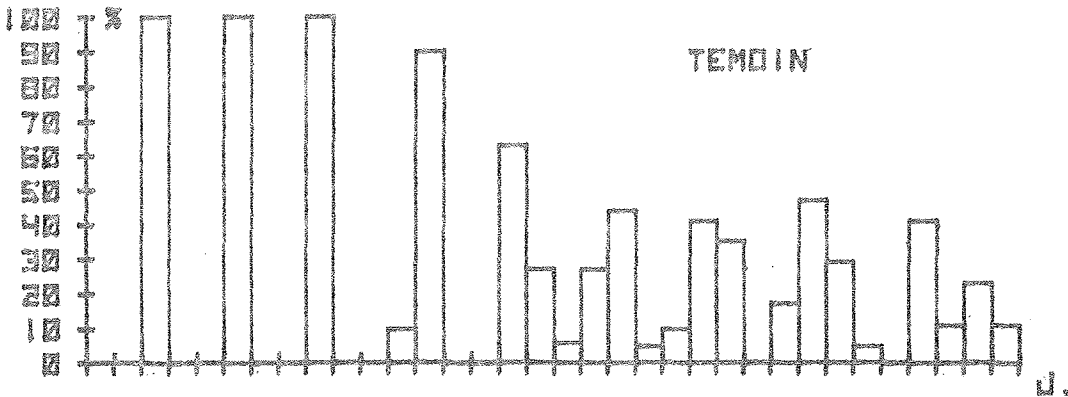
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 POURCENTAGES DE MORTALITES DE P. SERRATUS AU COURS DU TEMPS



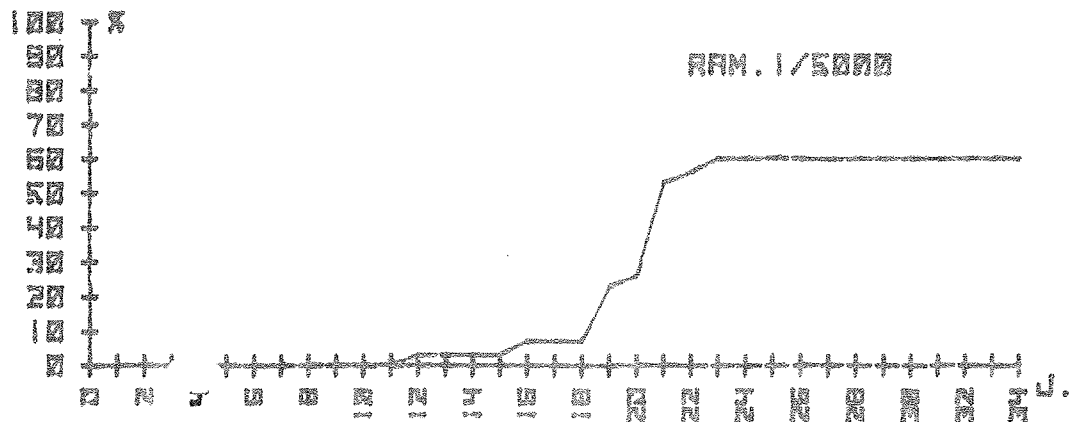
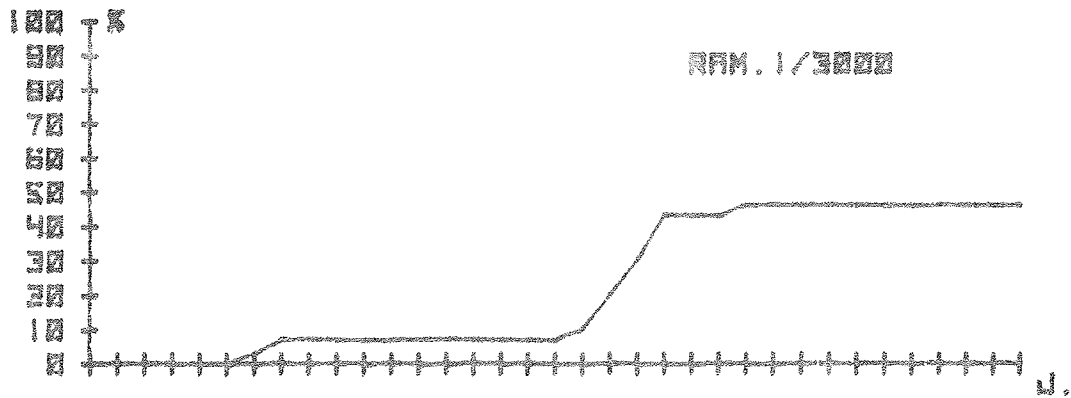
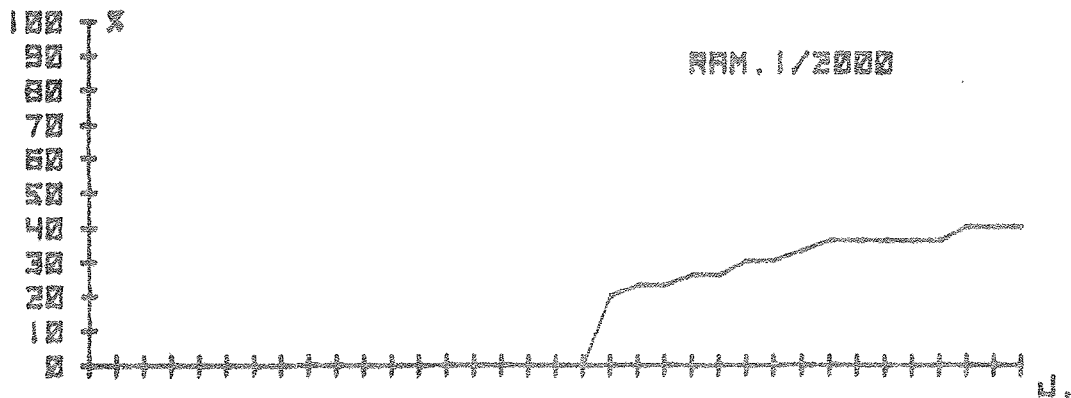
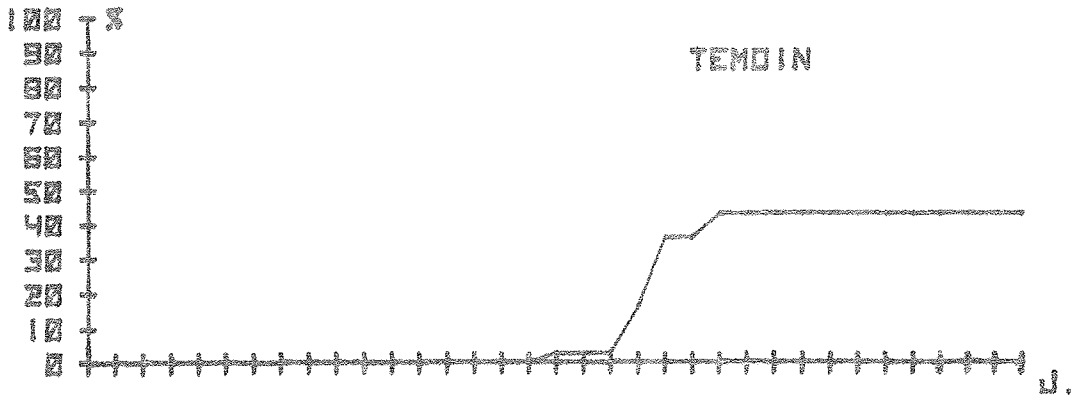
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POURCENTAGES DE MIES DE P. SERRATUS AU COURS DU TEMPS



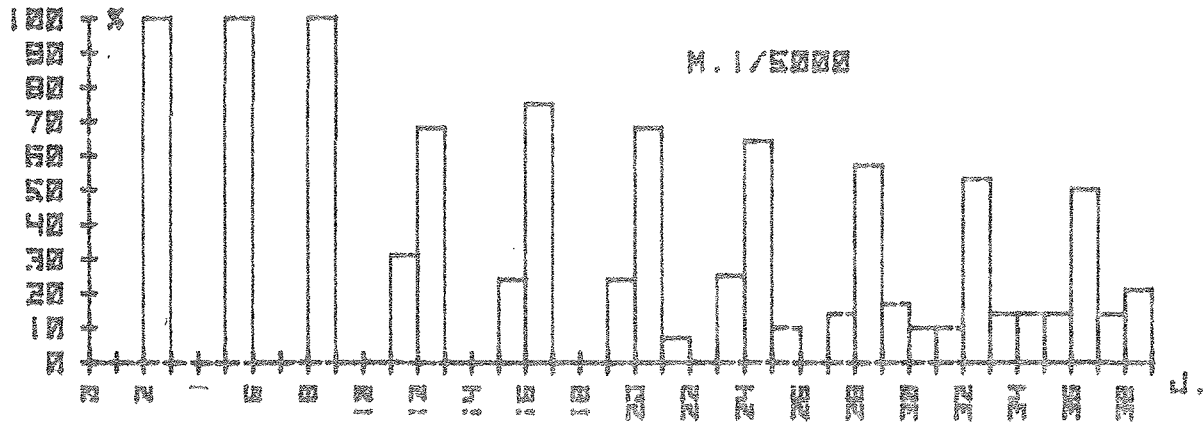
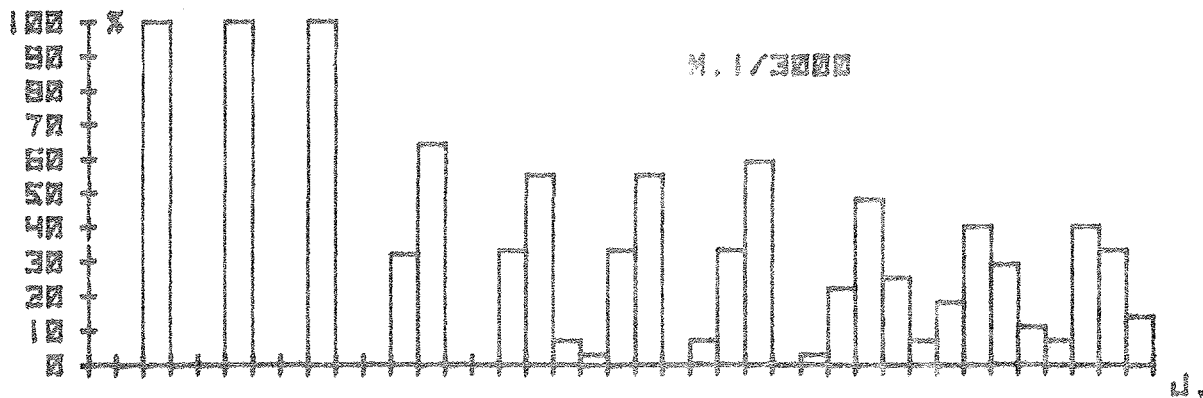
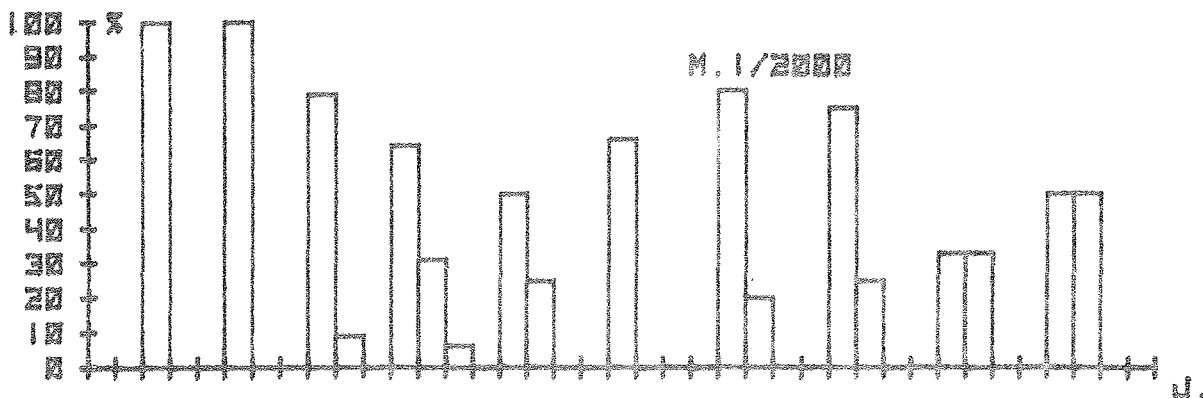
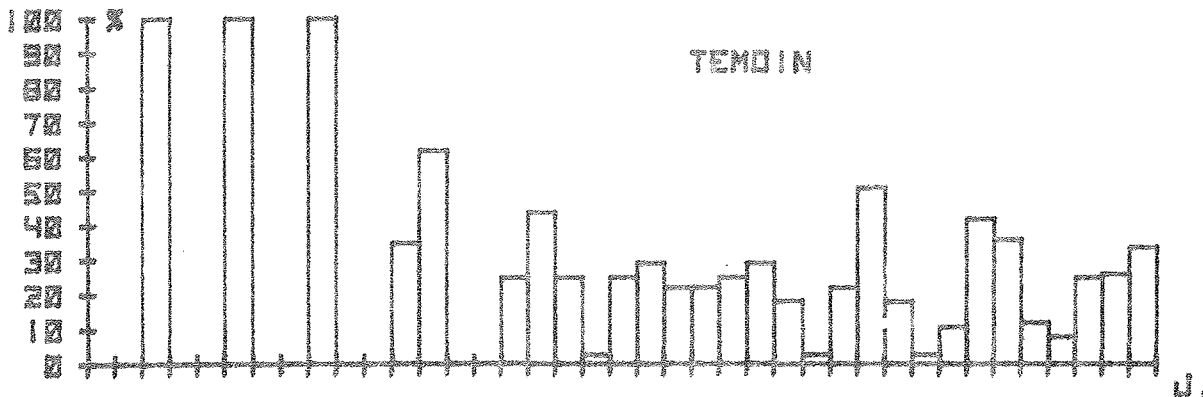
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POURCENTAGES DE MORTALITES DE P. SERRATUS AU COURS DU TEMPS



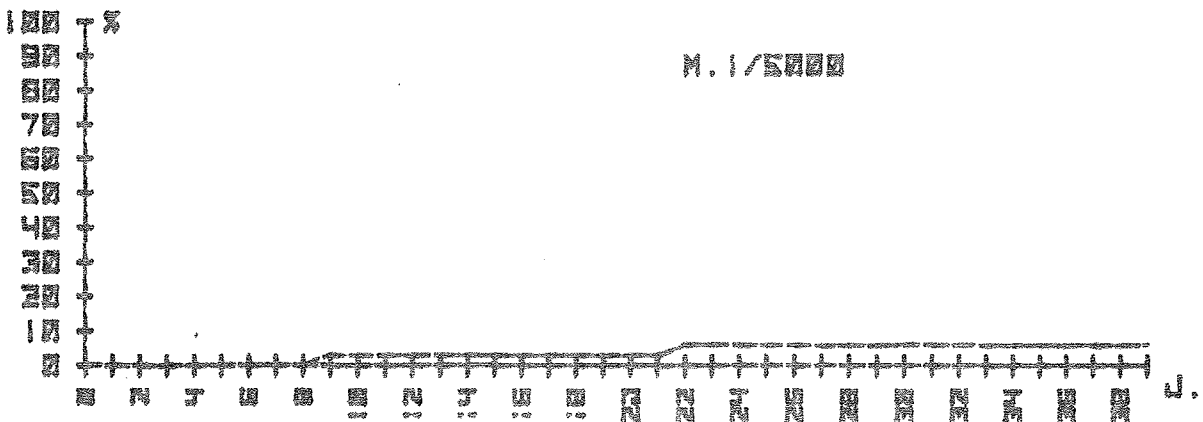
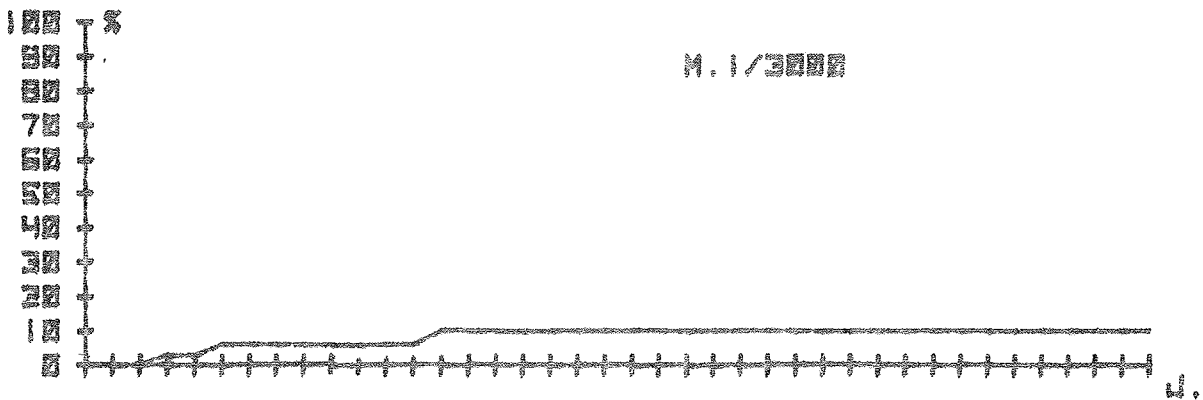
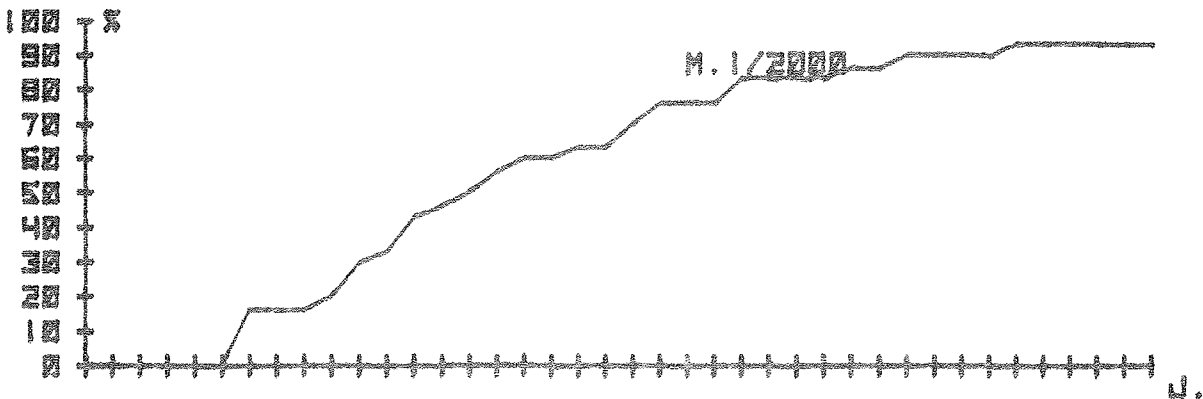
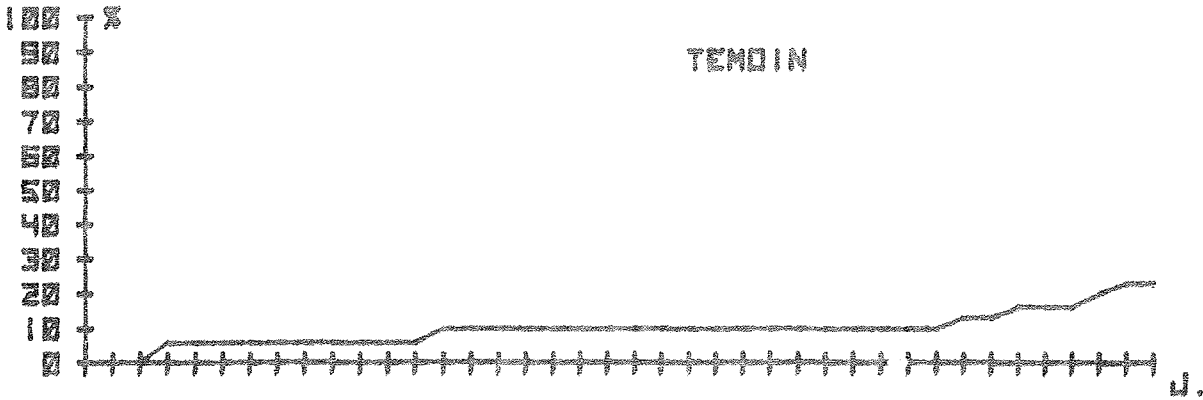
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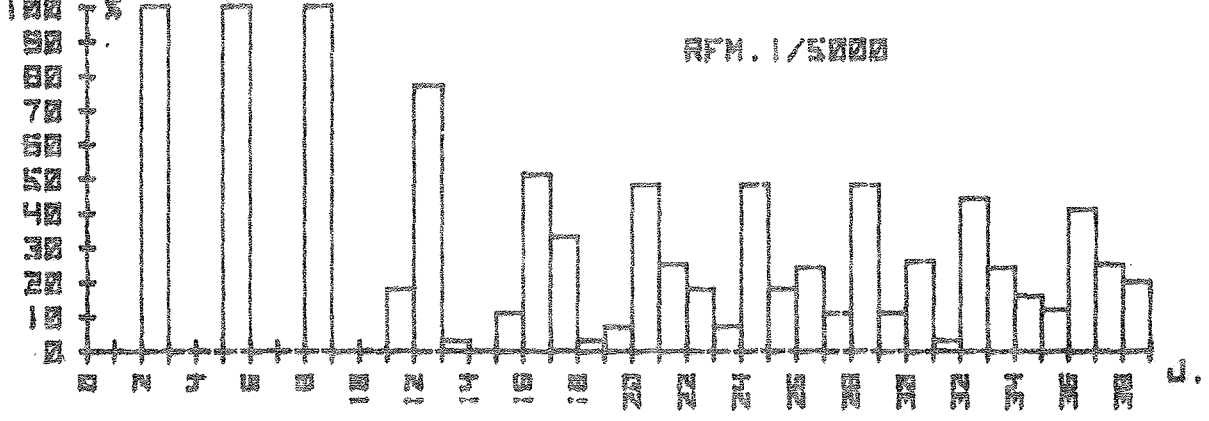
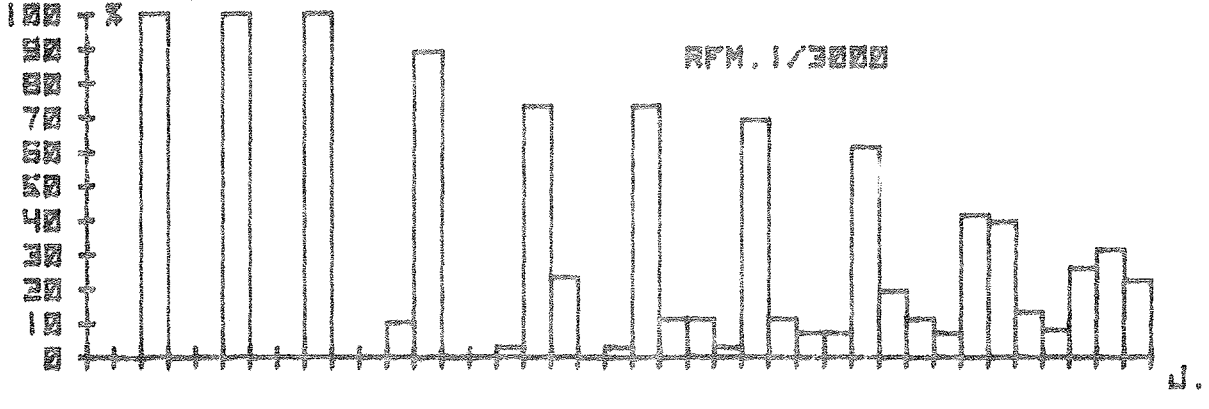
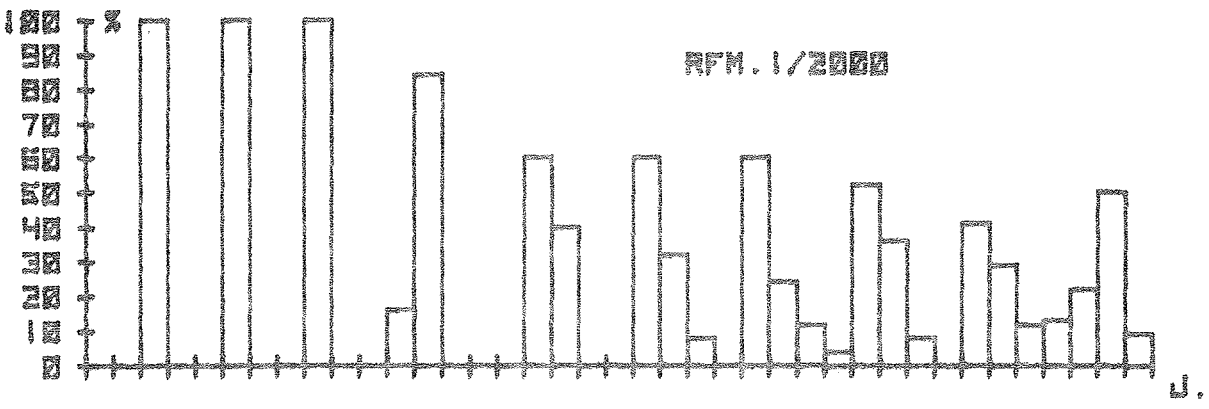
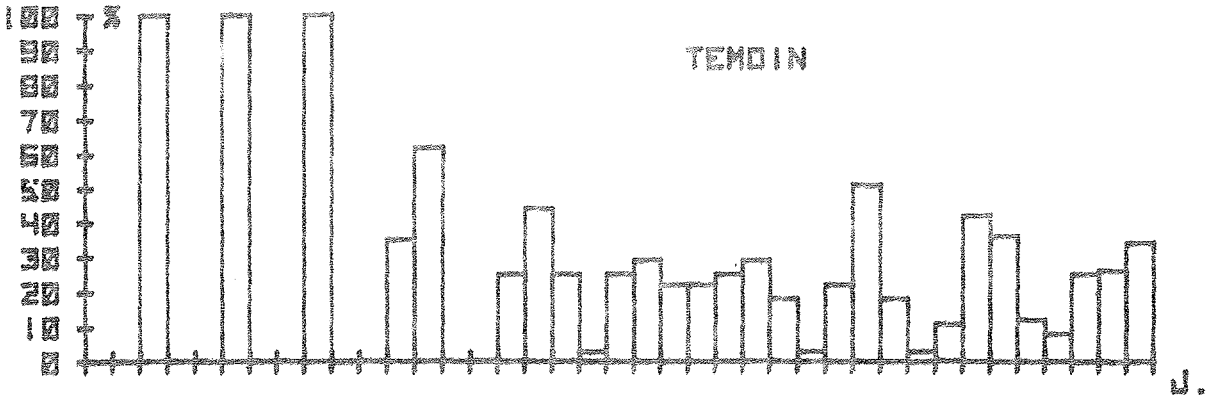
EXPERIENCE 2 :
POURCENTAGES DE MORTALITES DE P. SERRATUS AU COURS DU TEMPS



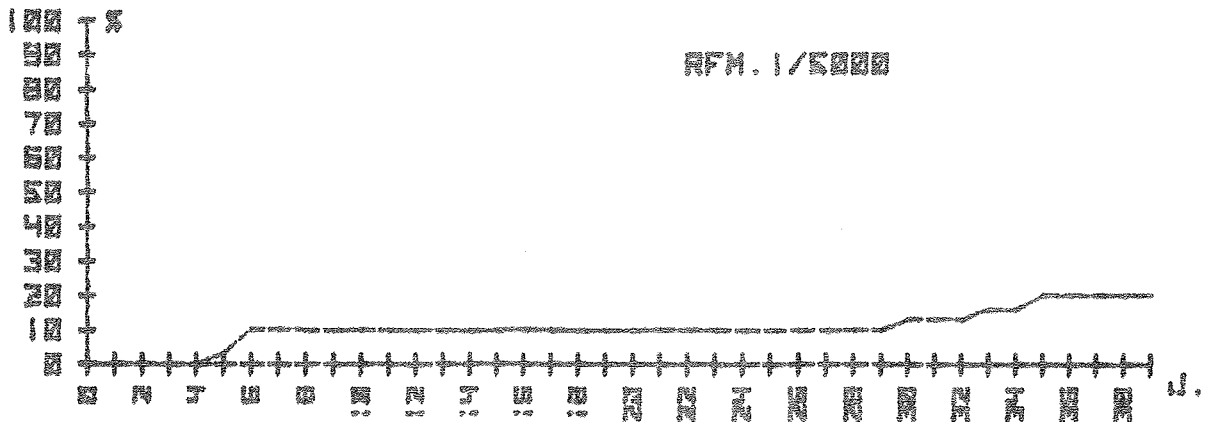
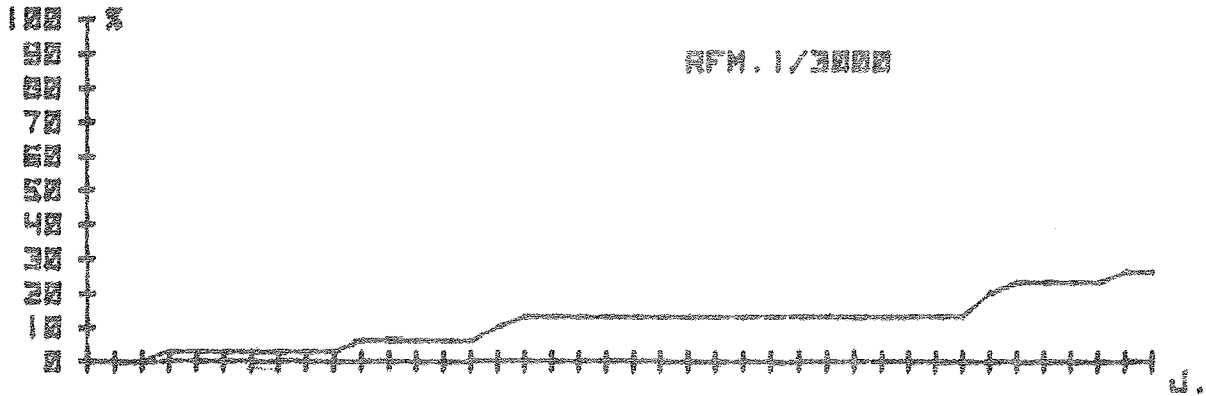
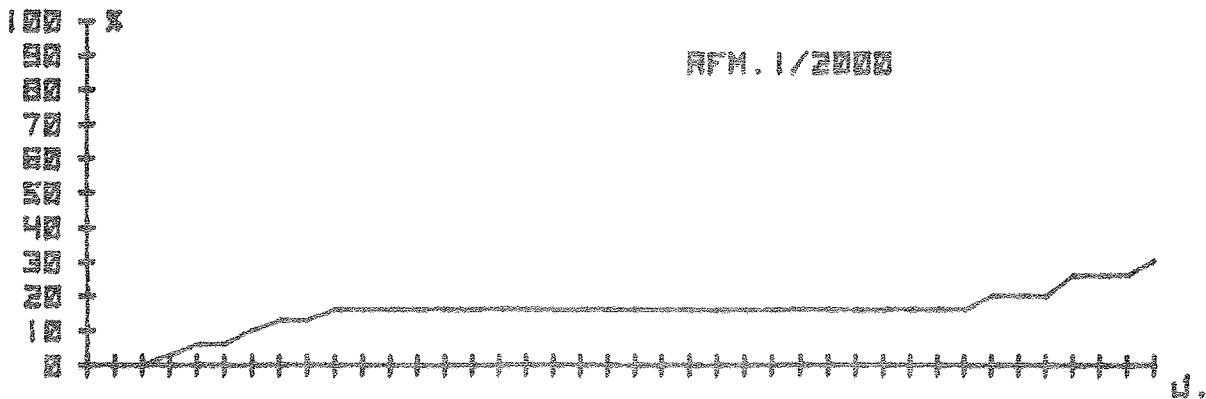
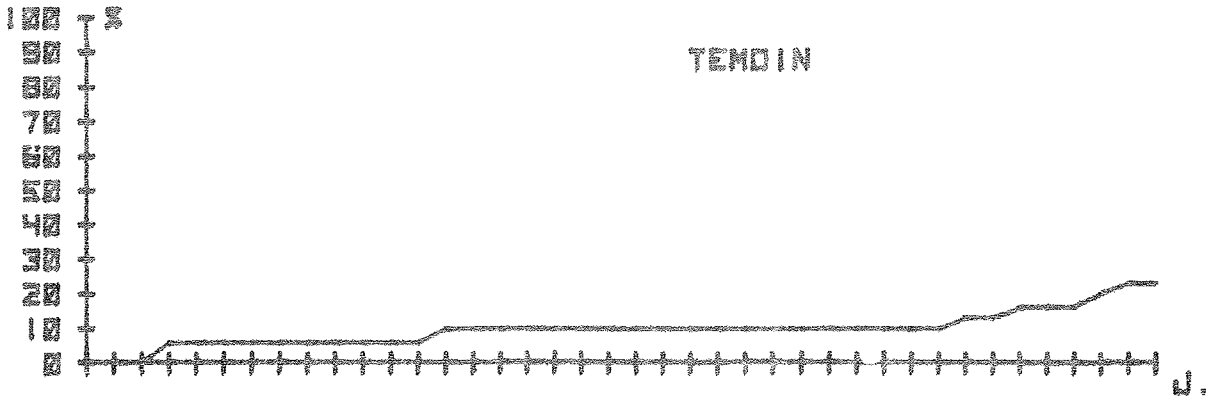
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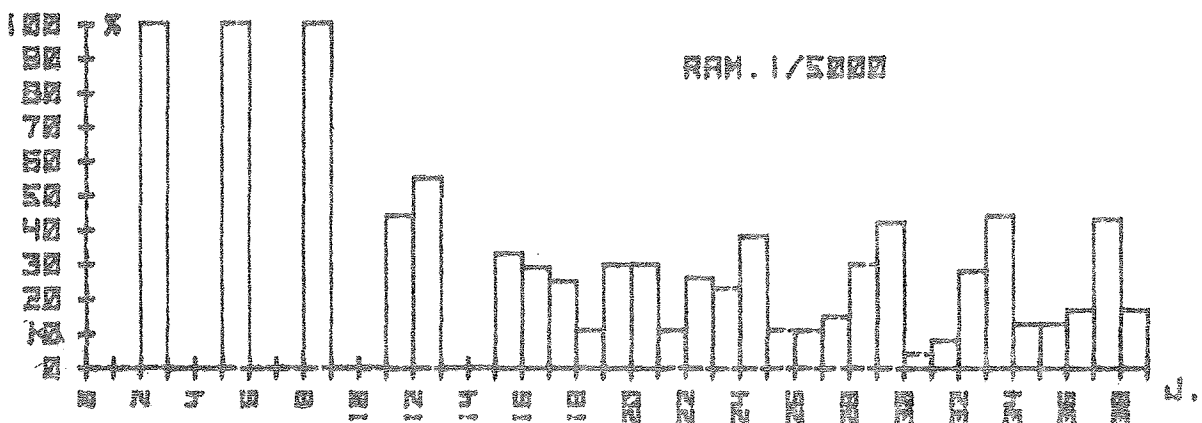
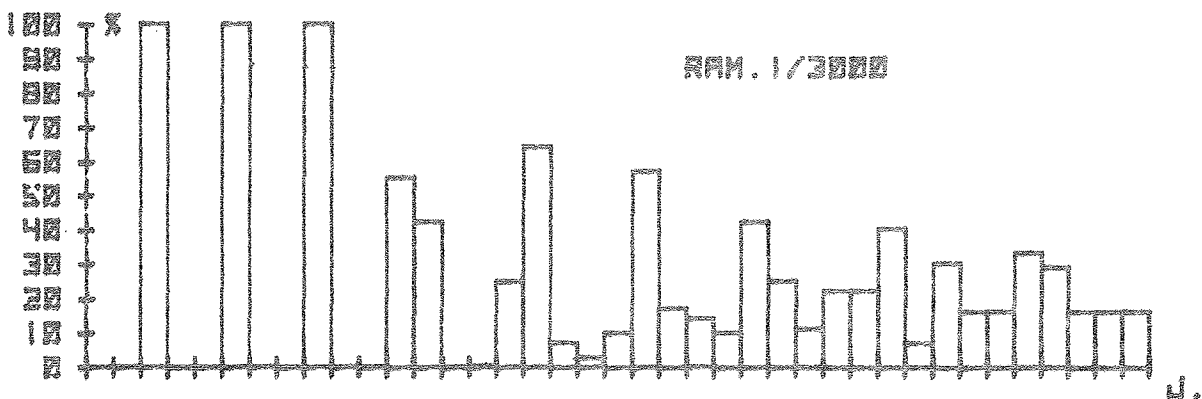
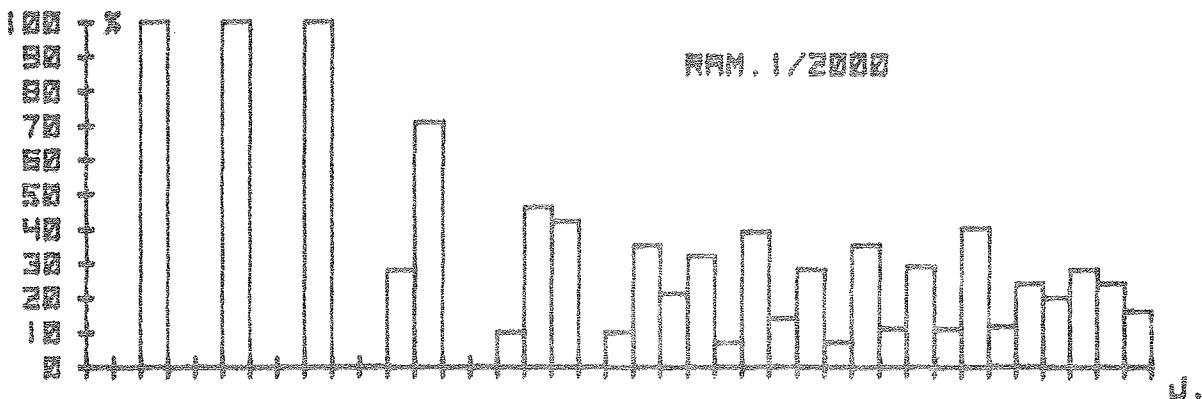
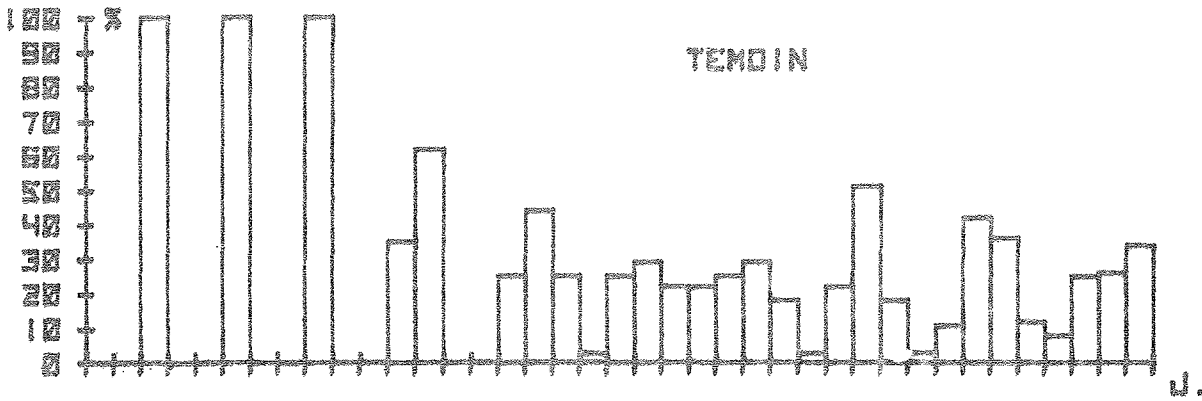
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 POURCENTAGES DE MORTALITES DE P. SERRATUS AU COURS DU TEMPS



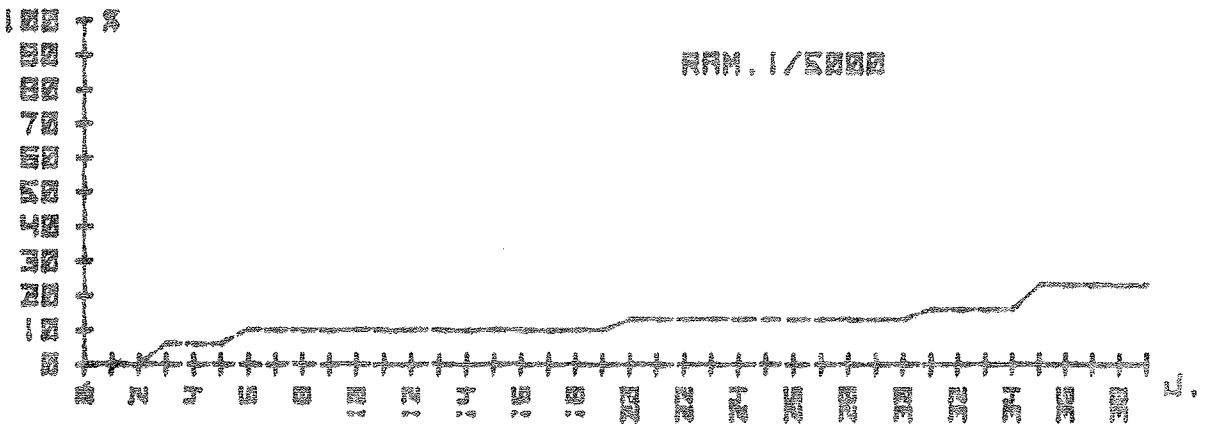
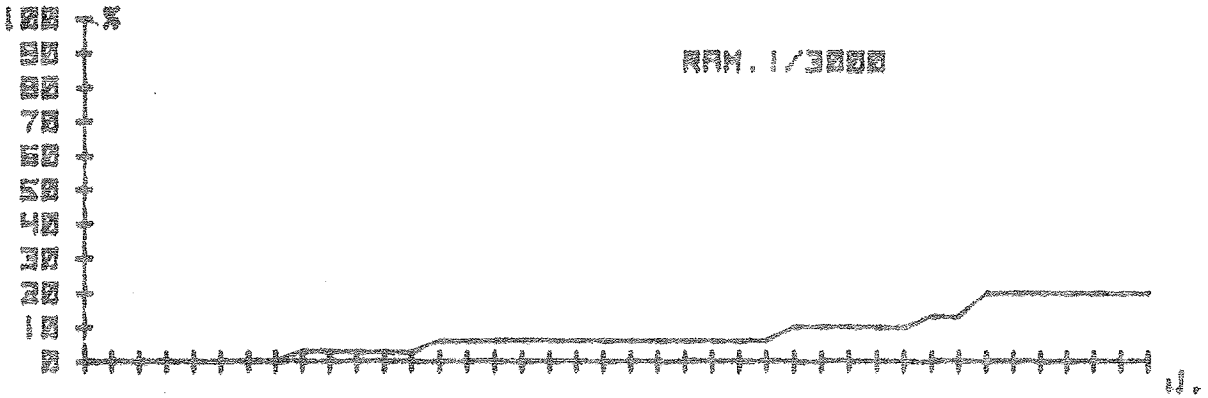
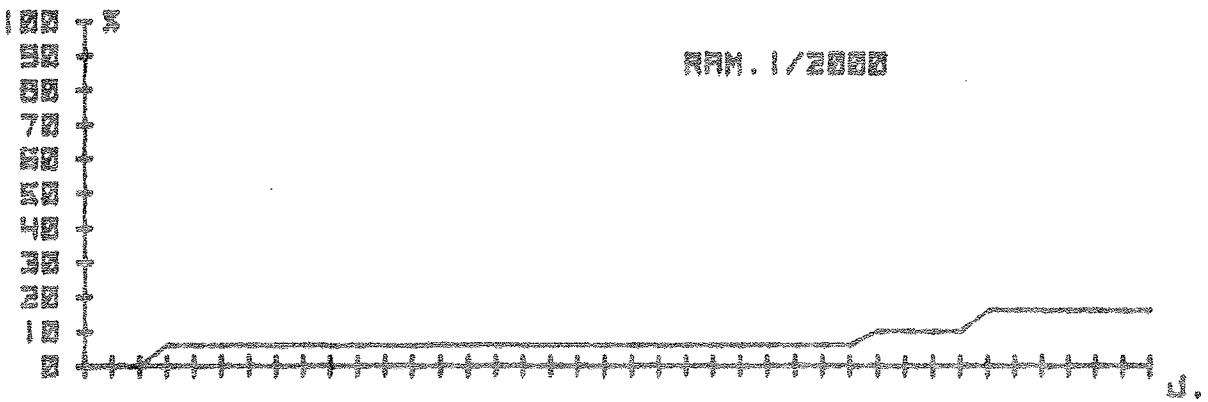
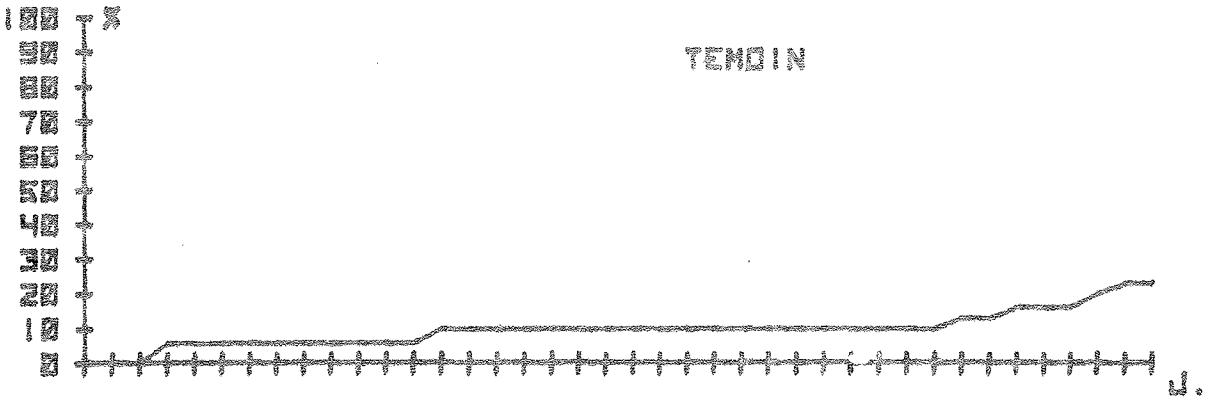
EXPERIENCE 2 :
POURCENTAGES DE MUES DE P. SERRATUS AU COURS DU TEMPS



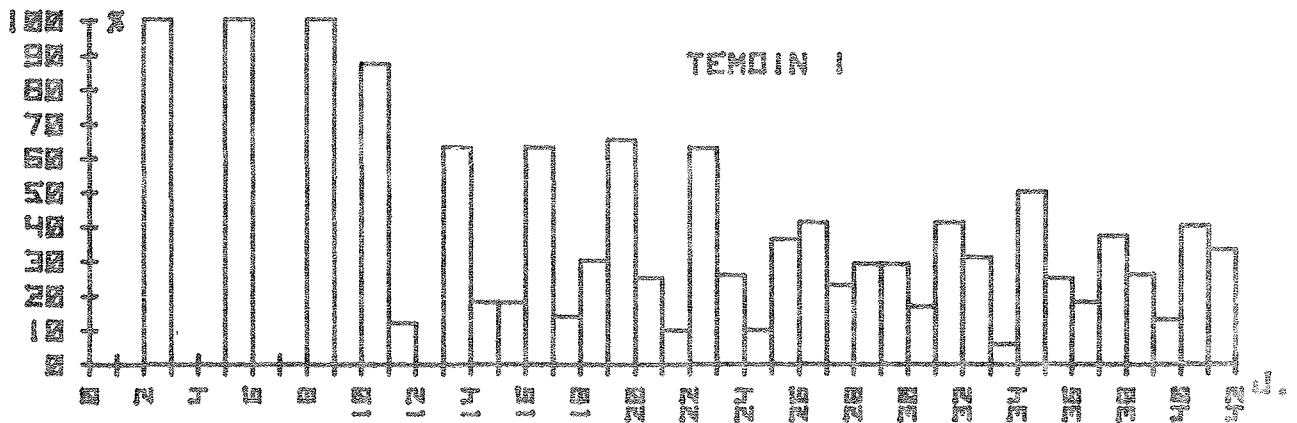
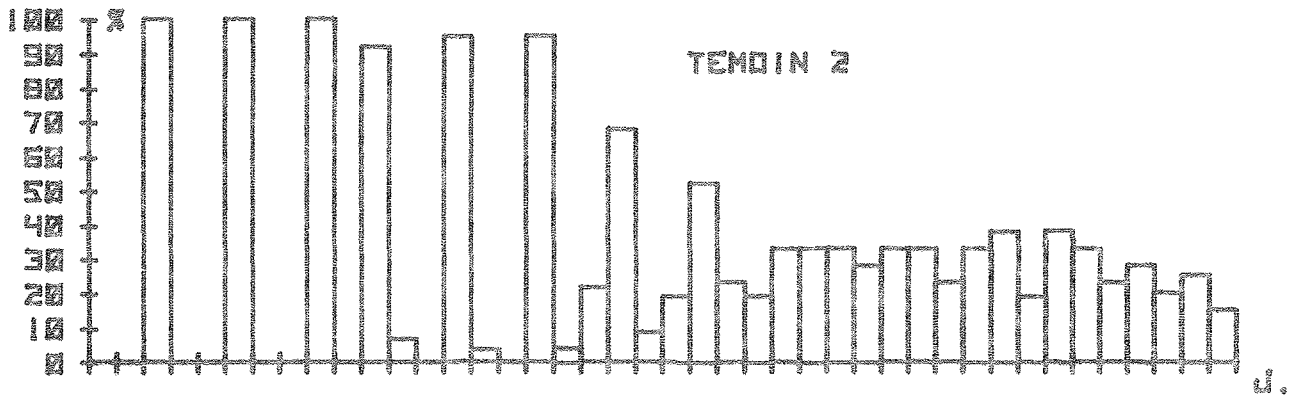
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POURCENTAGES DE MORTALITES DE P. SERRATUS AU COURS DU TEMPS



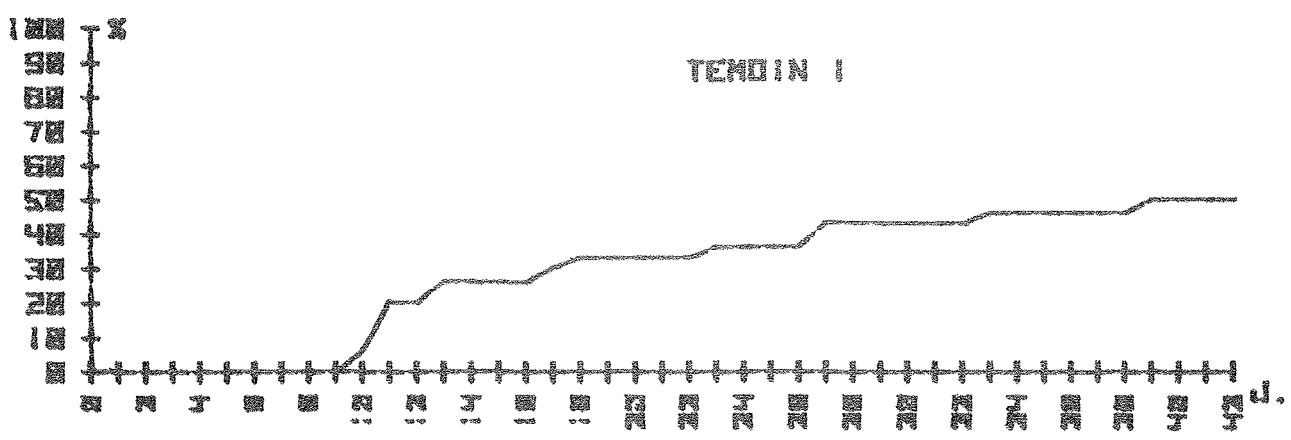
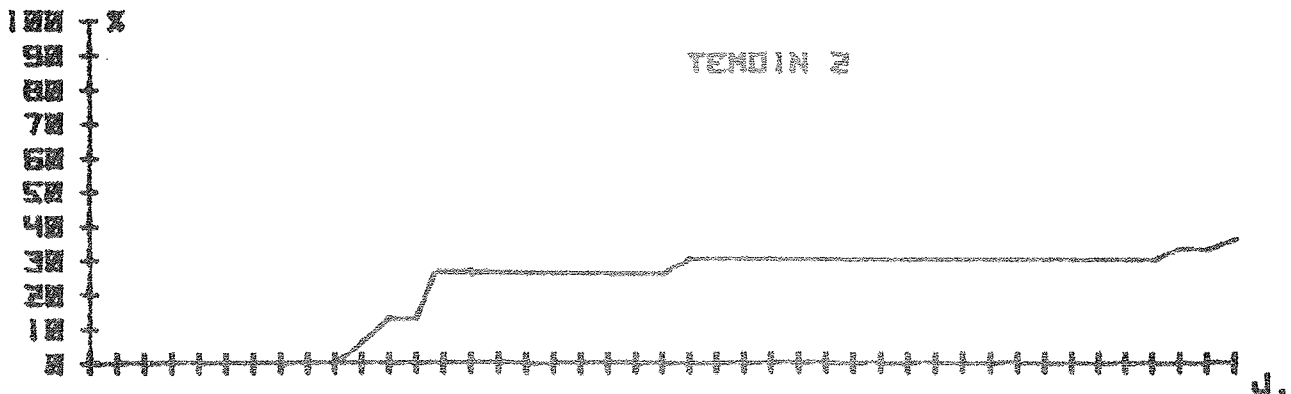
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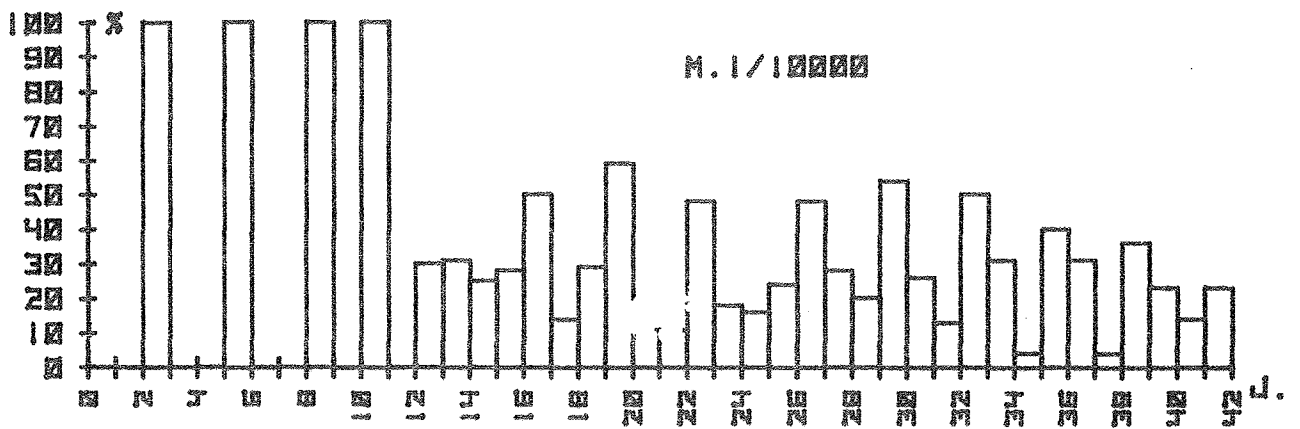
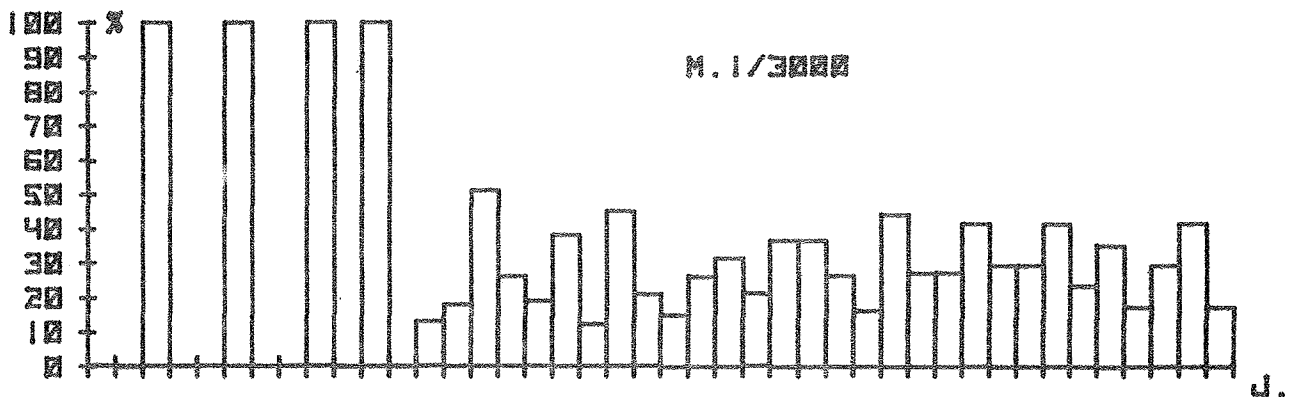
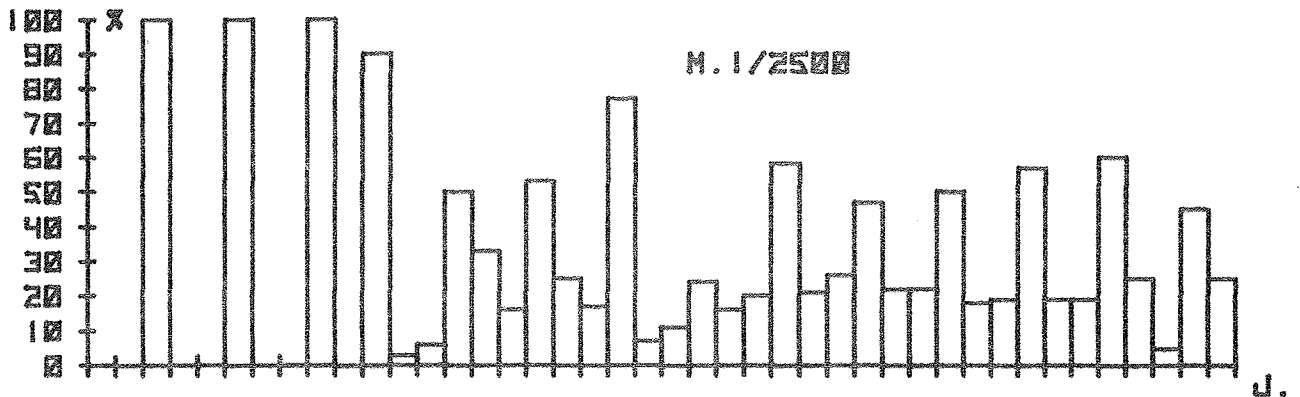
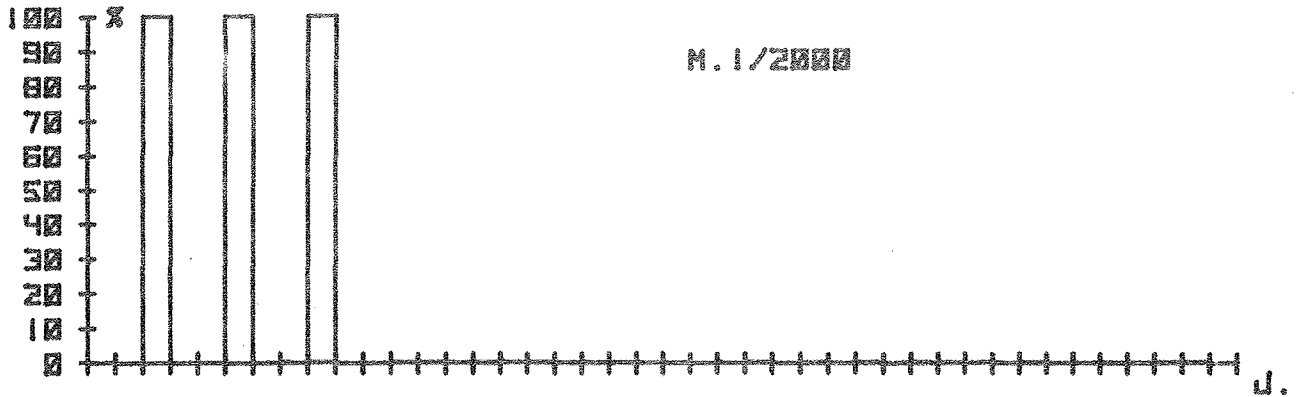
EXPERIENCE 3 :
POURCENTAGES DE MORTALITES DE P. SCARATUS AU COURS DU TEMPS



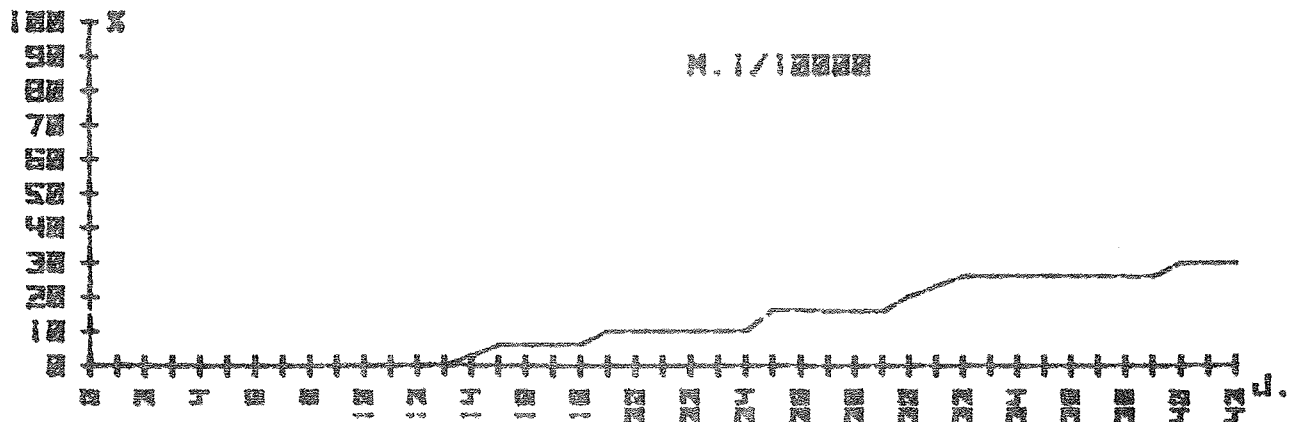
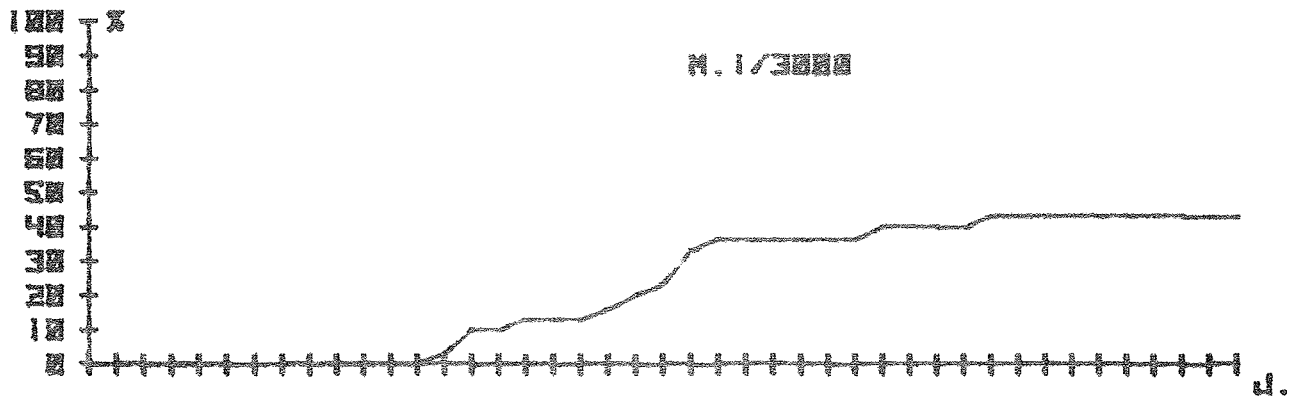
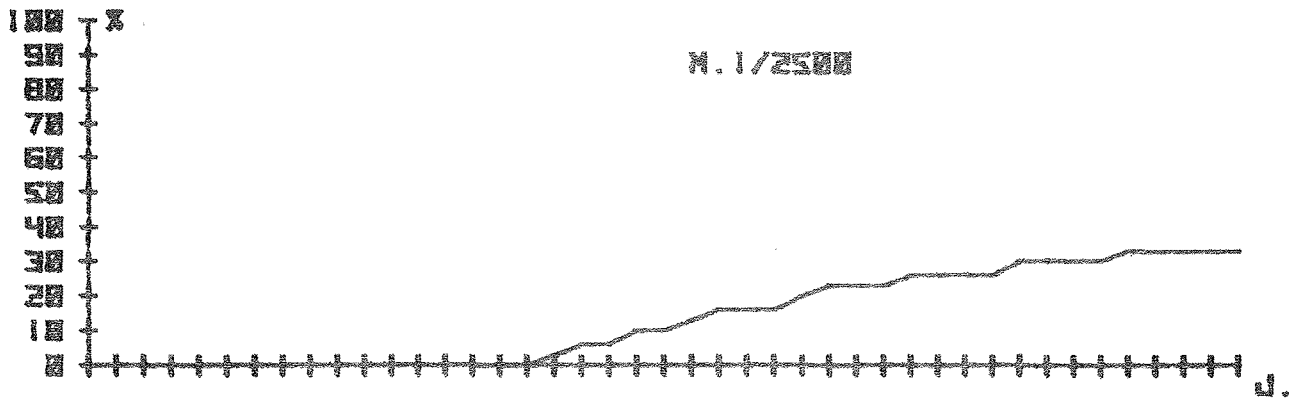
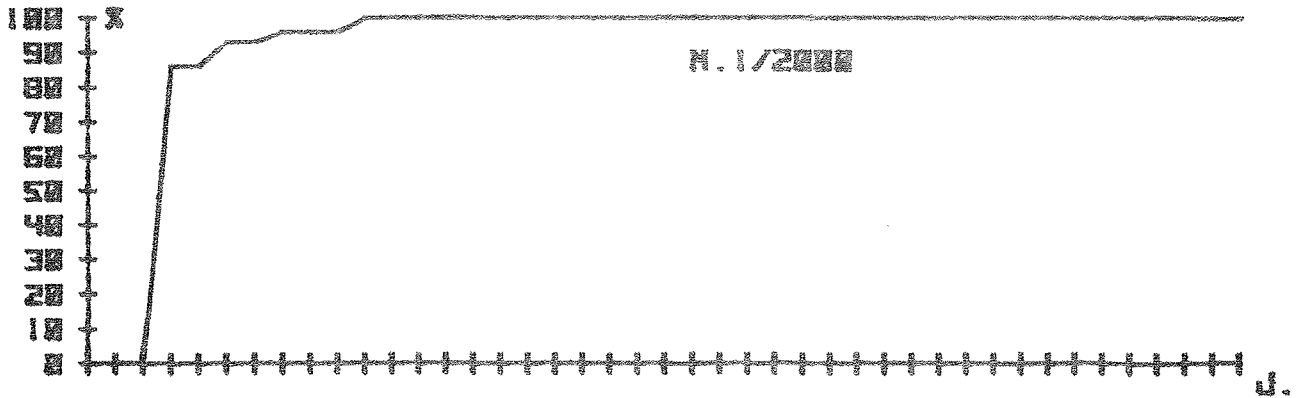
EXPERIENCE 4 :
POURCENTAGES DE MUES DE P. SERRATUS AU COURS DU TEMPS



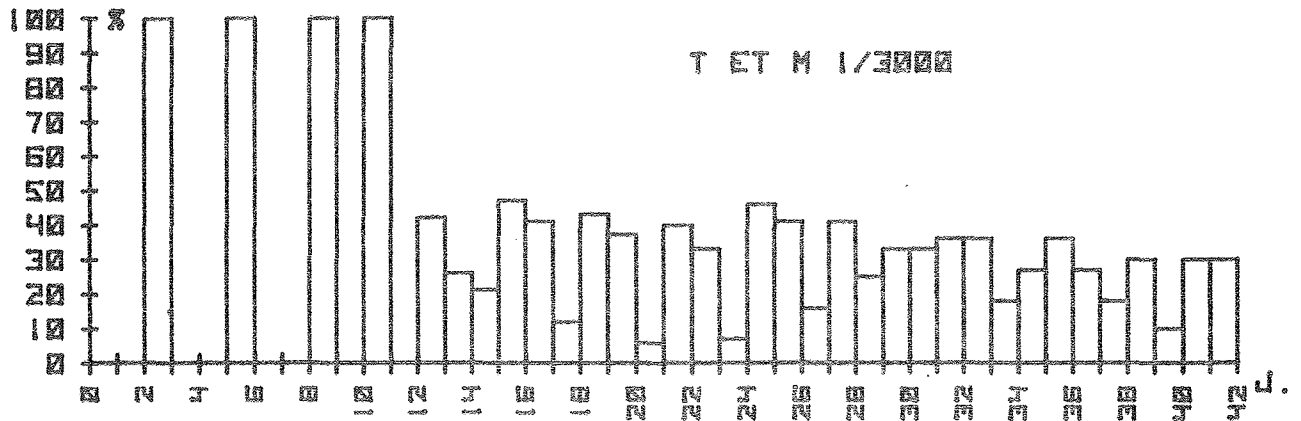
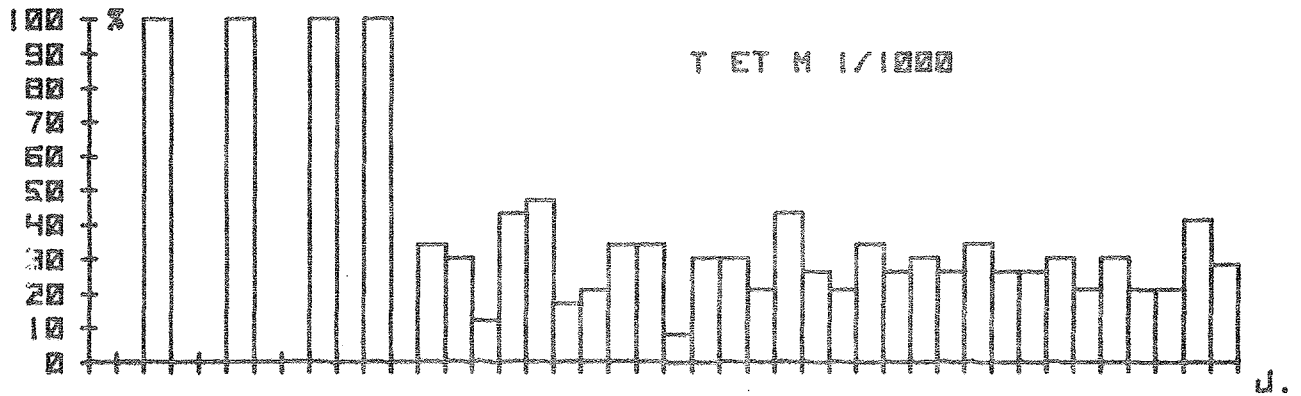
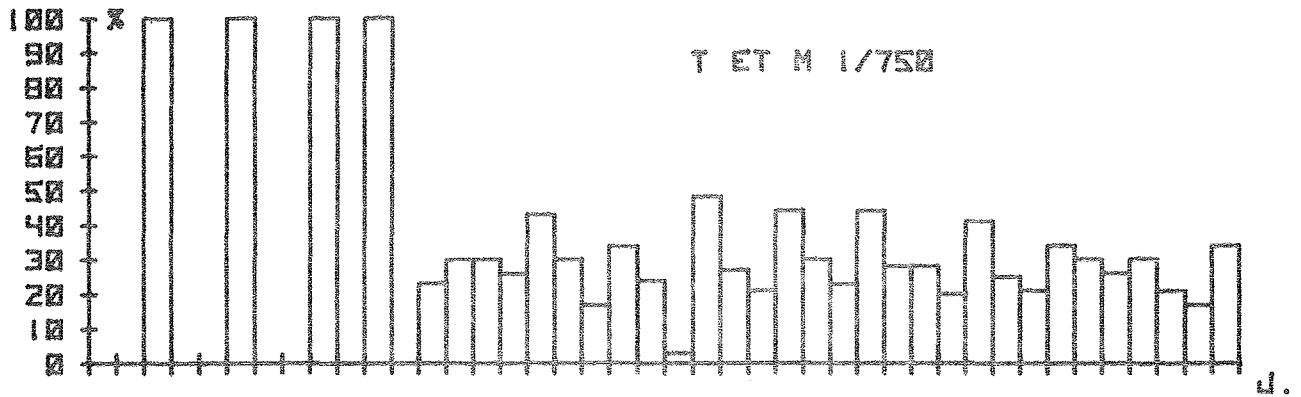
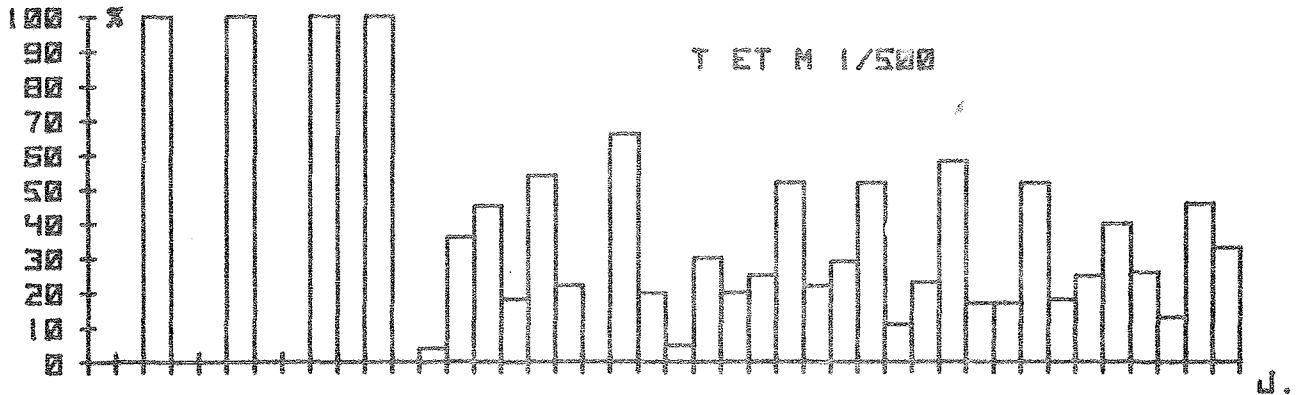
EXPERIENCE 4 :
POURCENTAGES DE MORTALITES DE P. SERRATUS AU COURS DU TEMPS



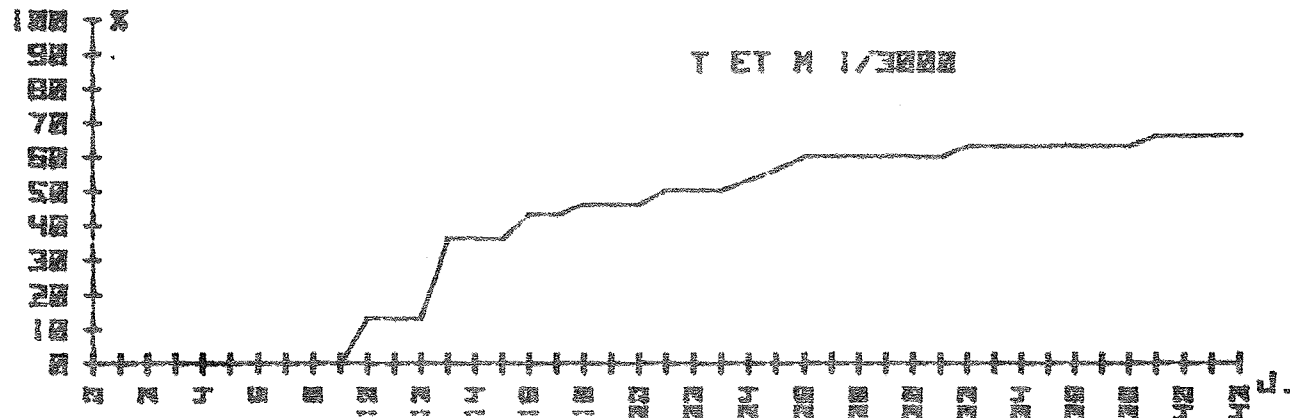
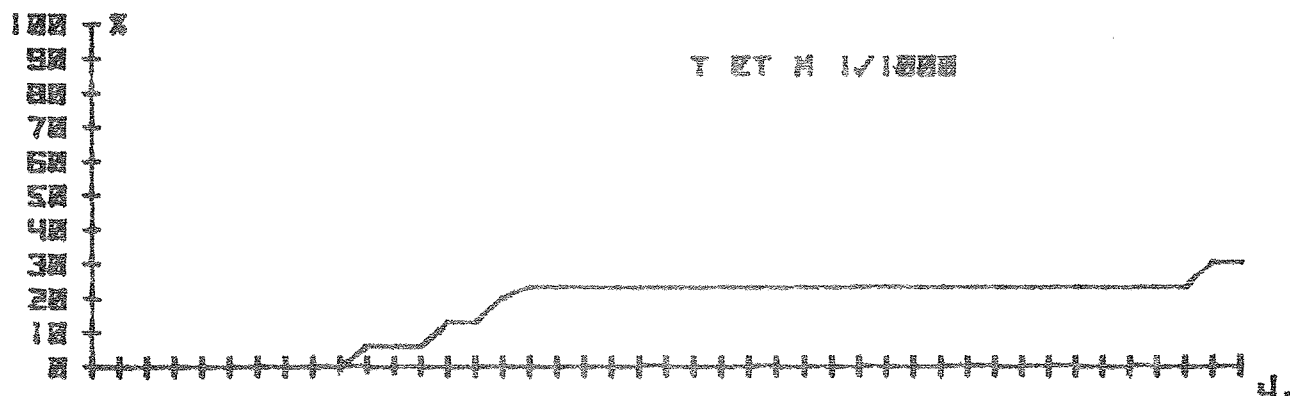
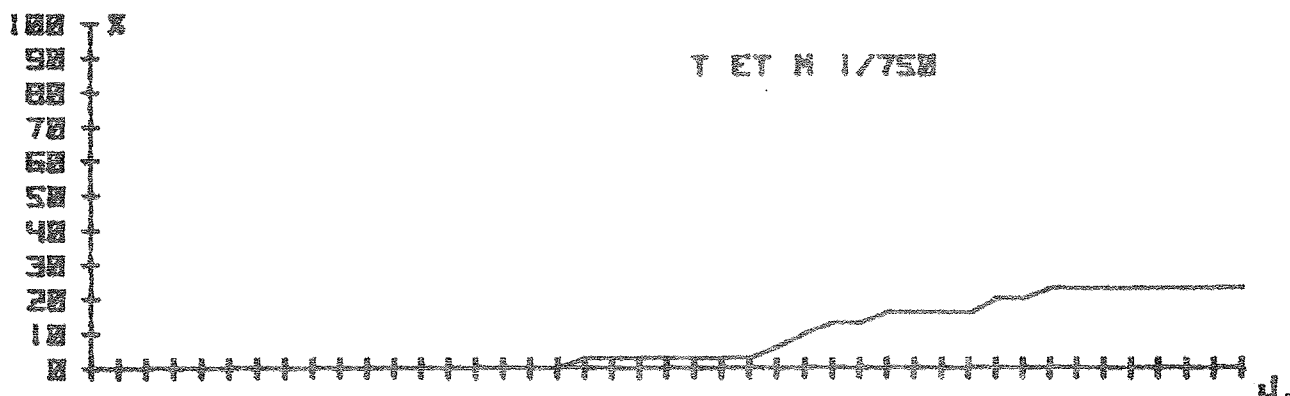
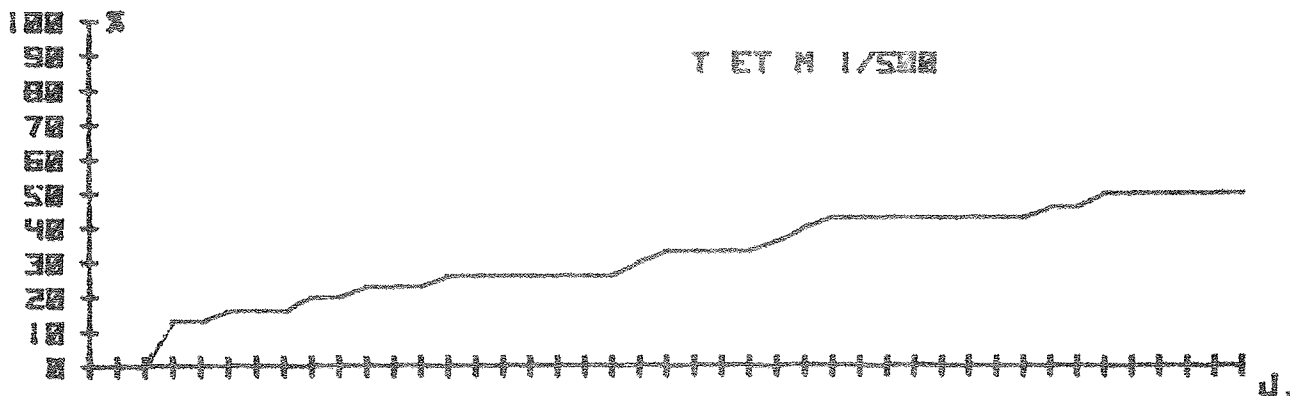
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POURCENTAGES DE MUES DE P.SERRATUS AU COURS DU TEMPS



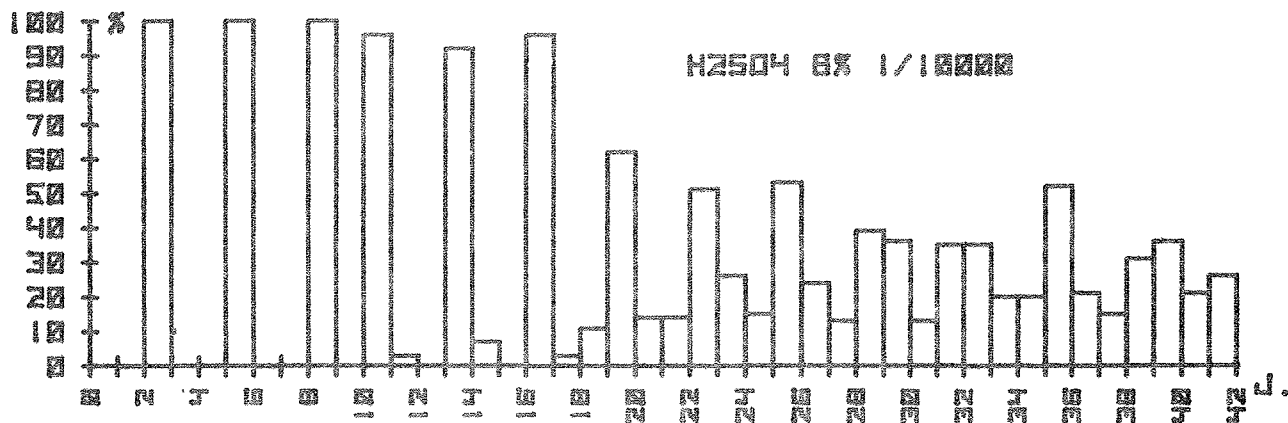
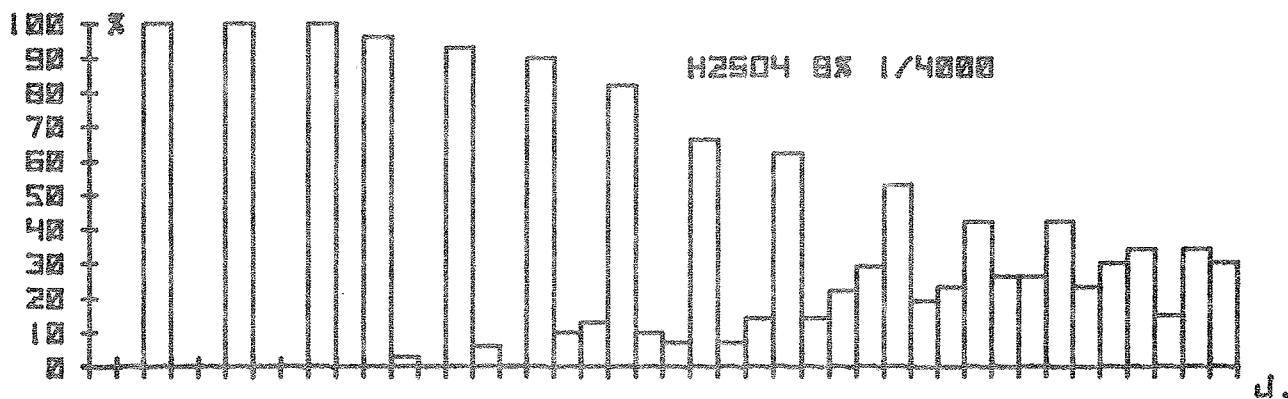
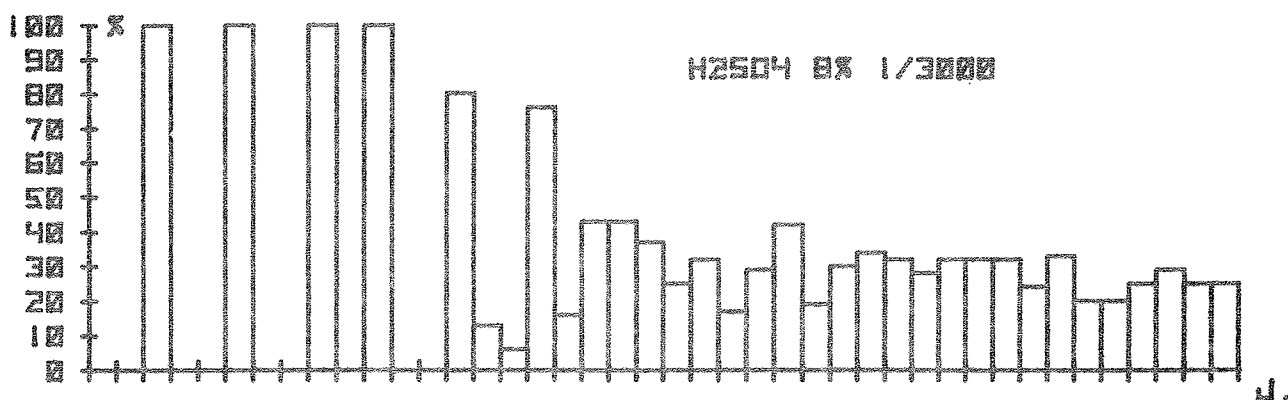
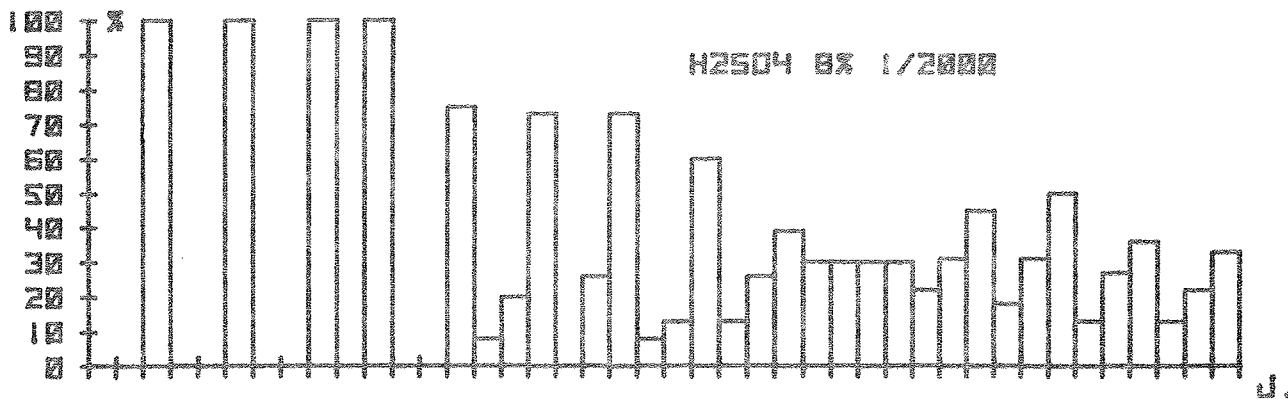
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POURCENTAGES DE MORTALITES DE P. SERRATUS AU COURS DU TEMPS



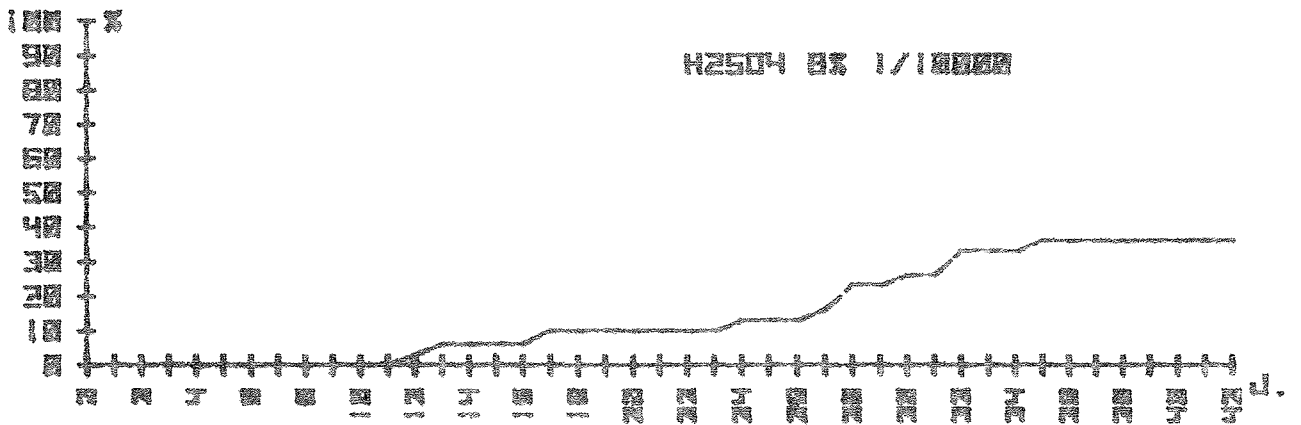
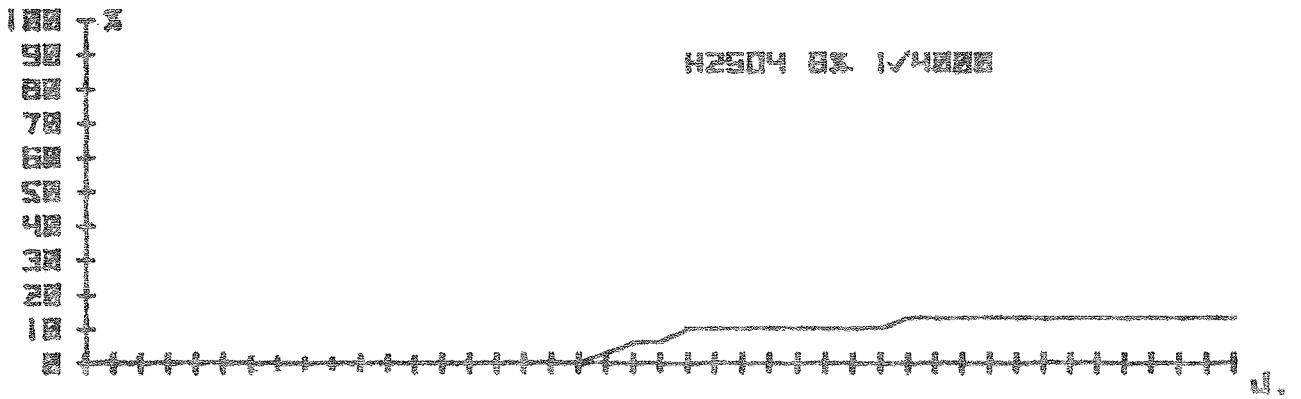
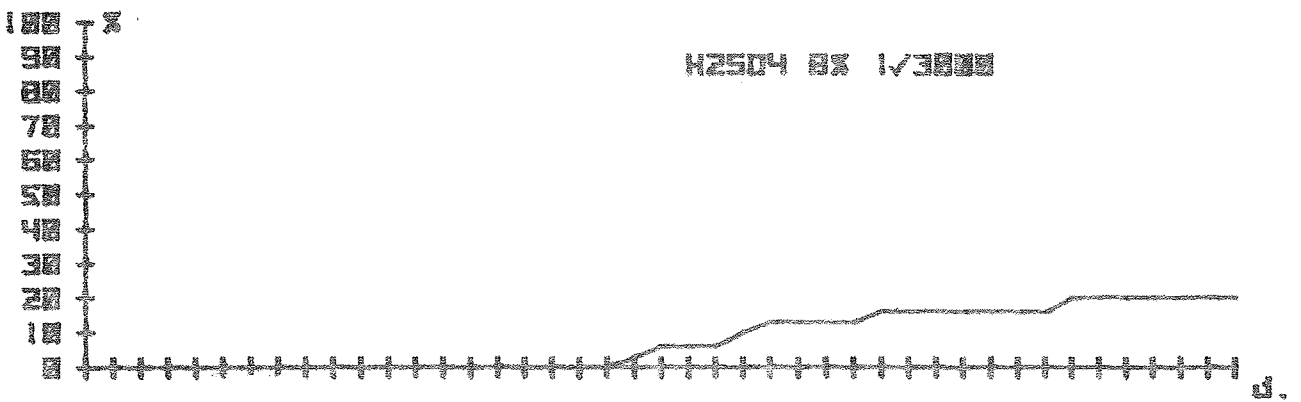
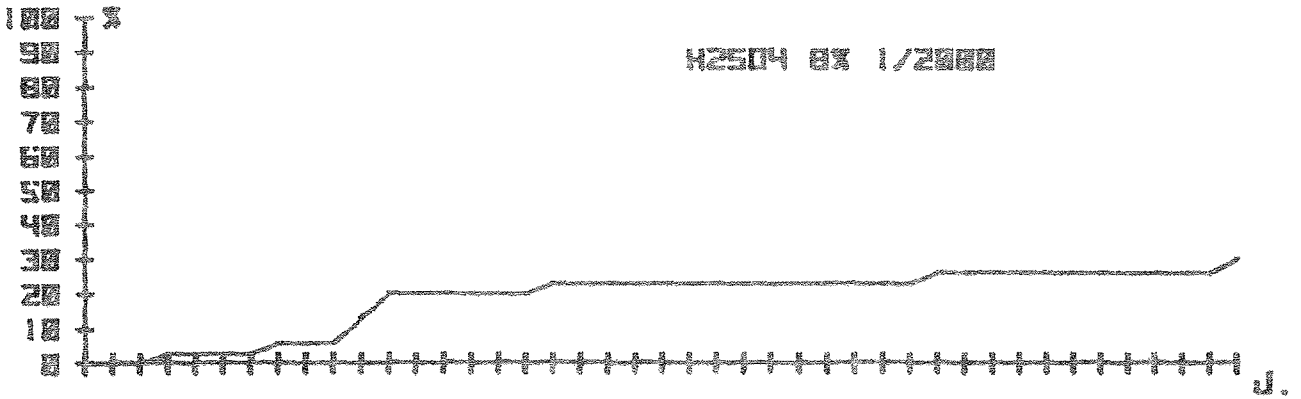
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 POURCENTAGES DE MUES DE P. SERRATUS AU COURS DU TEMPS



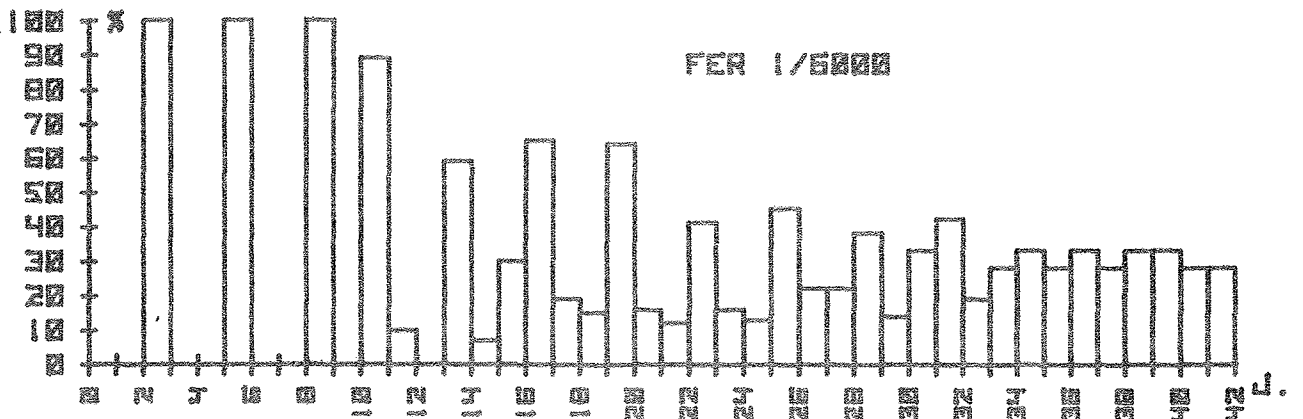
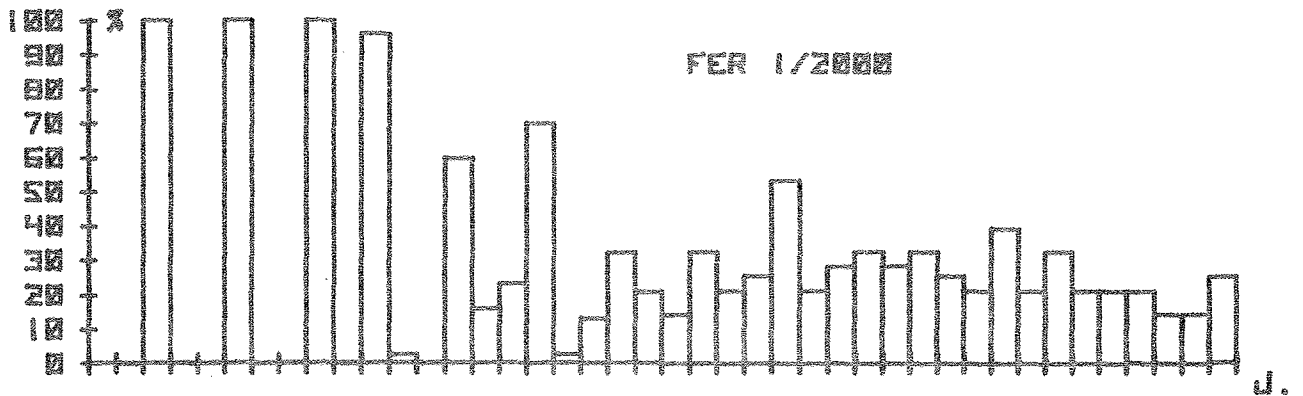
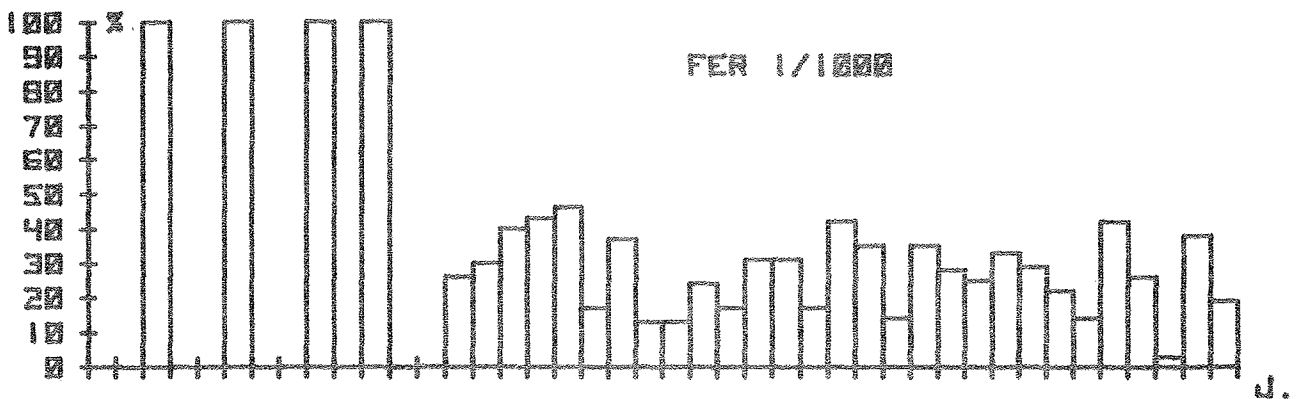
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POURCENTAGES DE MORTALITES DE P. SERRATUS AU COURS DU TEMPS



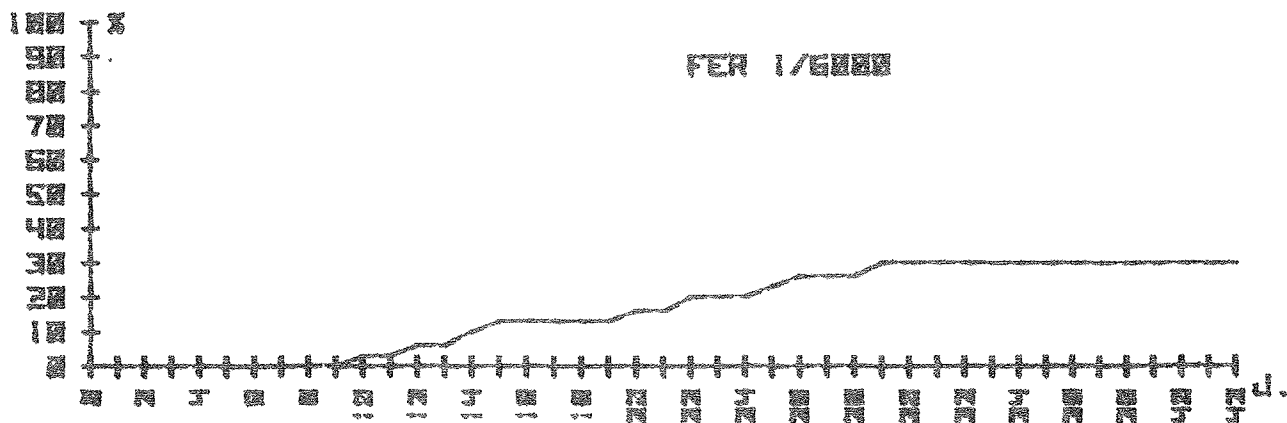
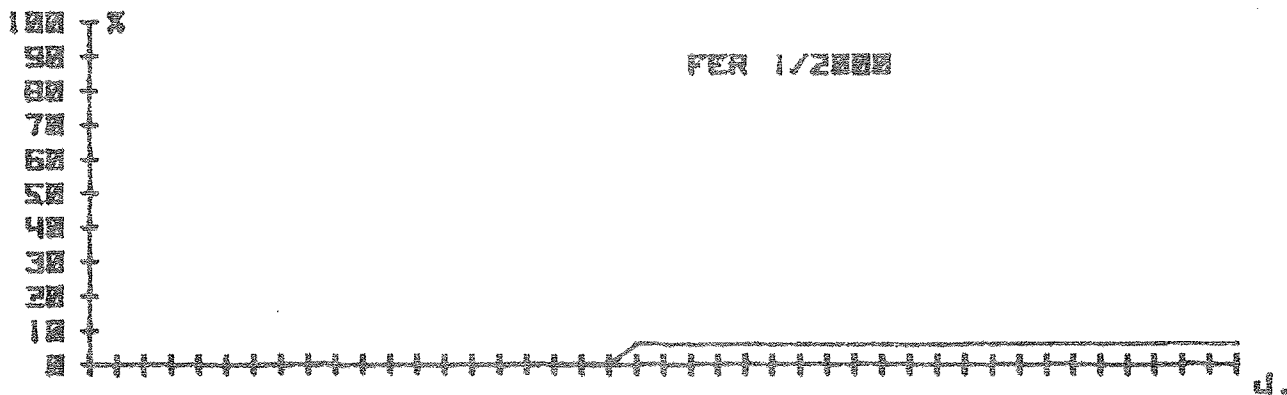
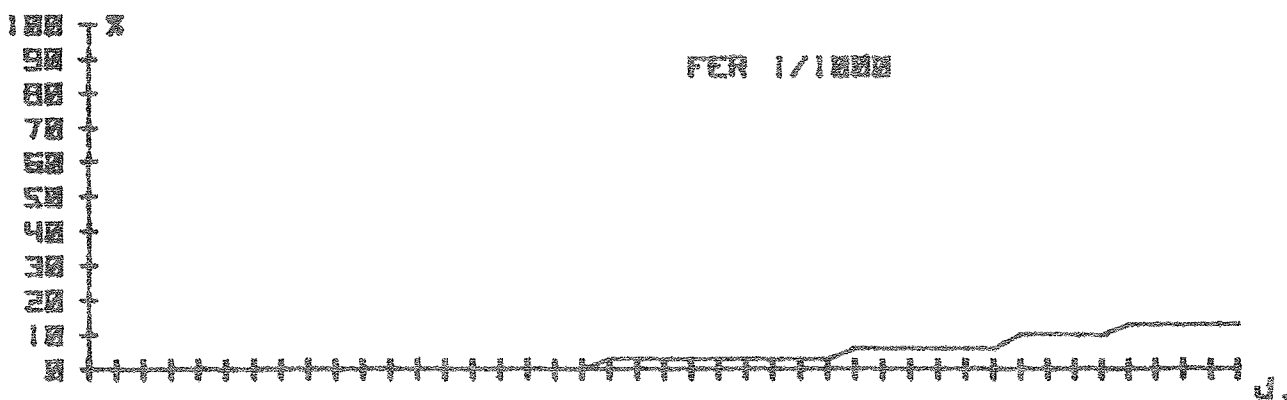
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POURCENTAGES DE MUES DE P. SERRATUS AU COURS DU TEMPS



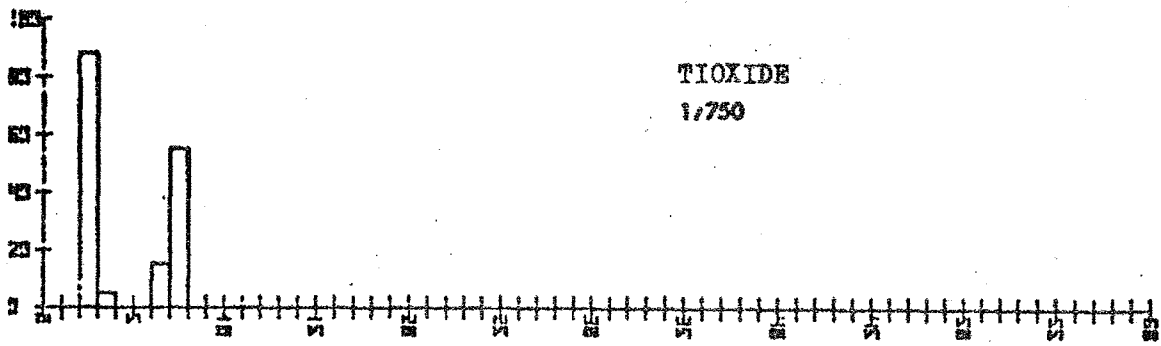
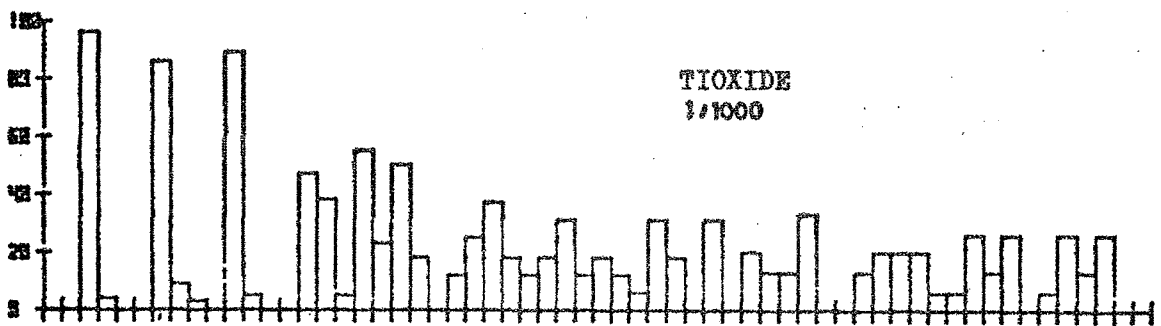
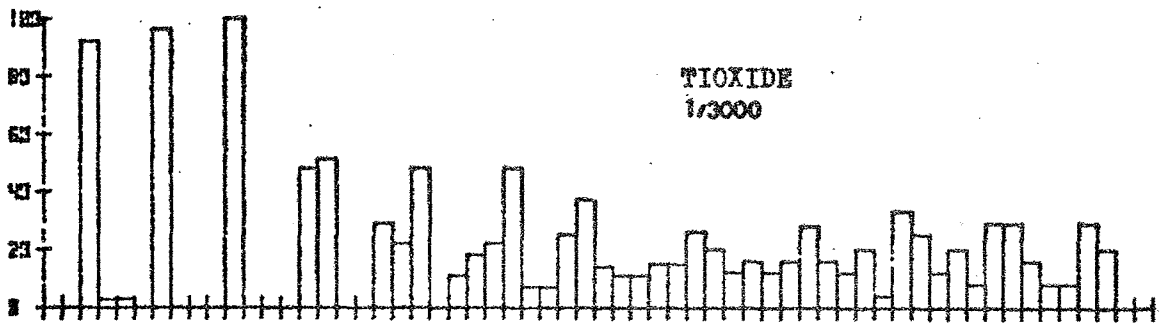
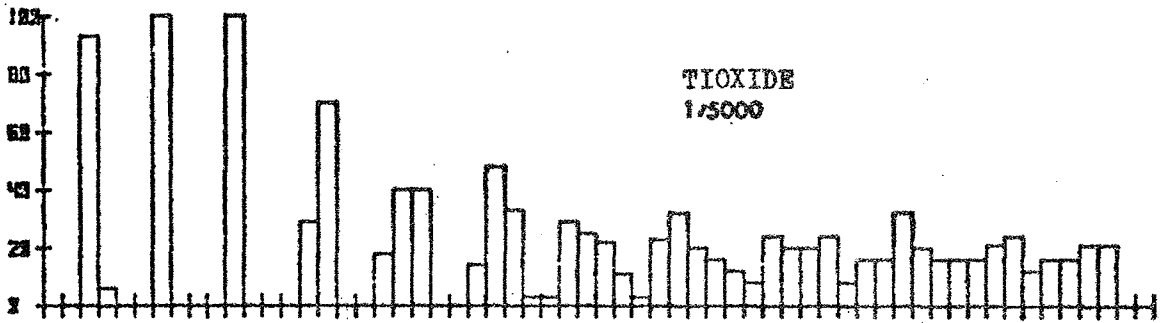
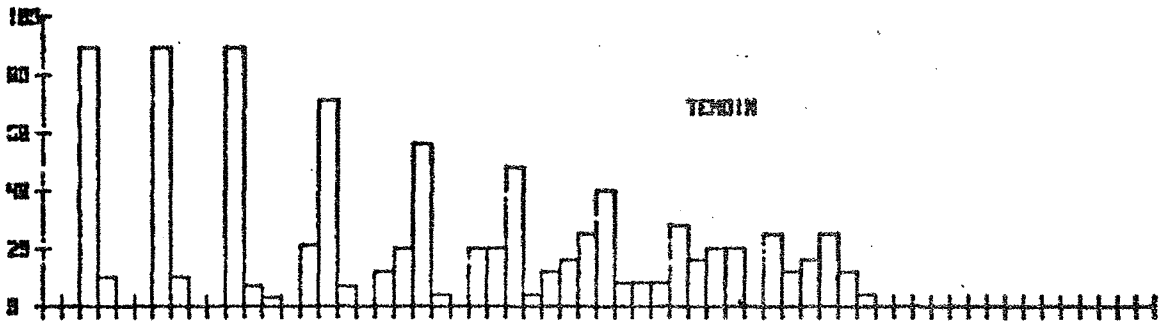
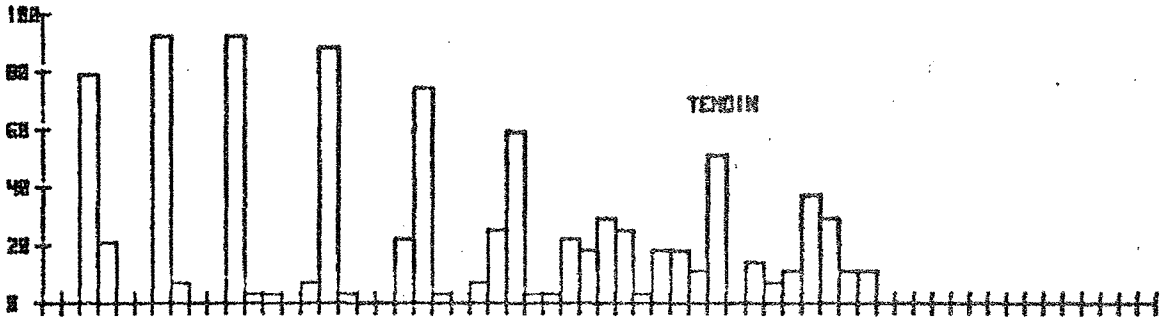
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POURCENTAGES DE MORTALITES DE P. SERRATUS AU COURS DU TEMPS



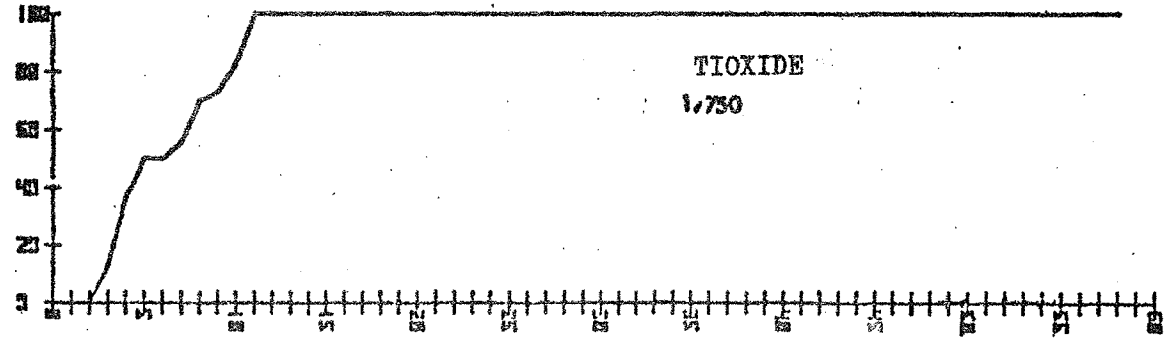
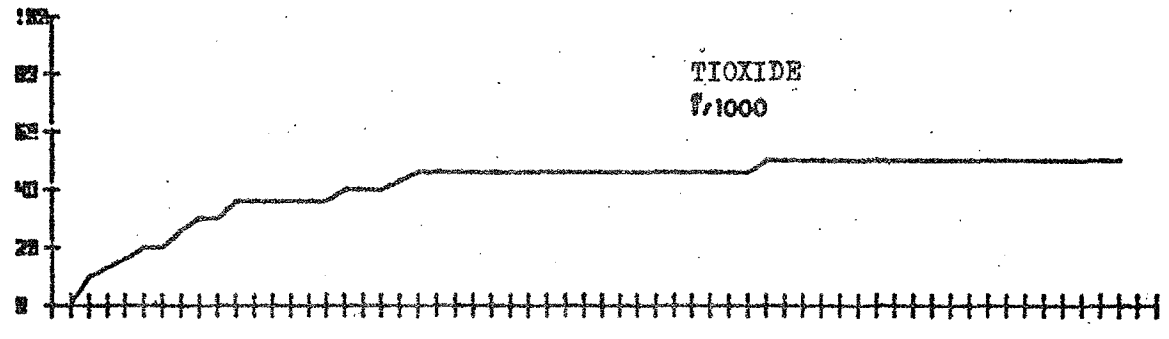
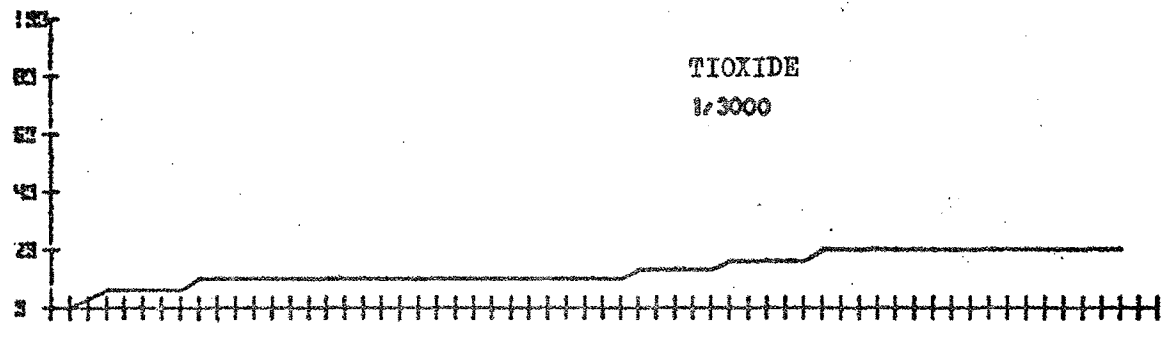
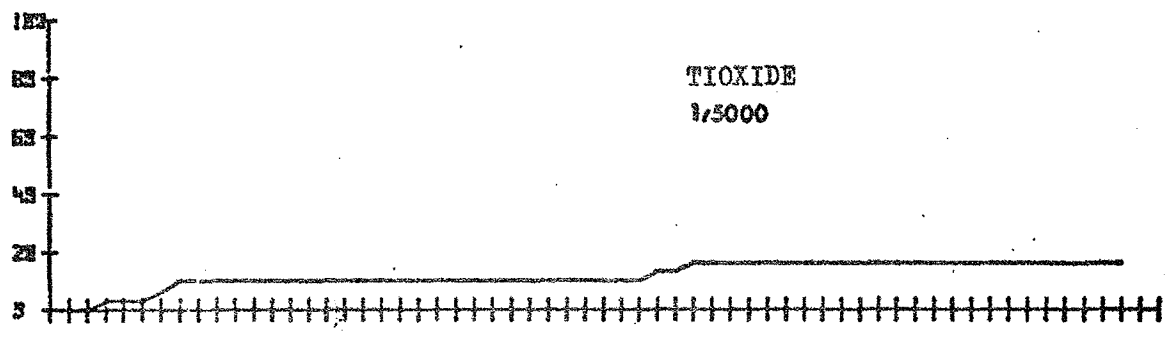
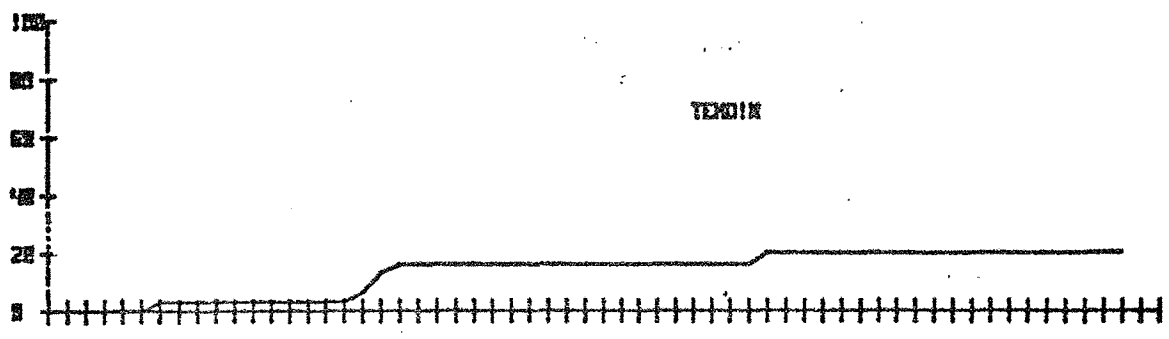
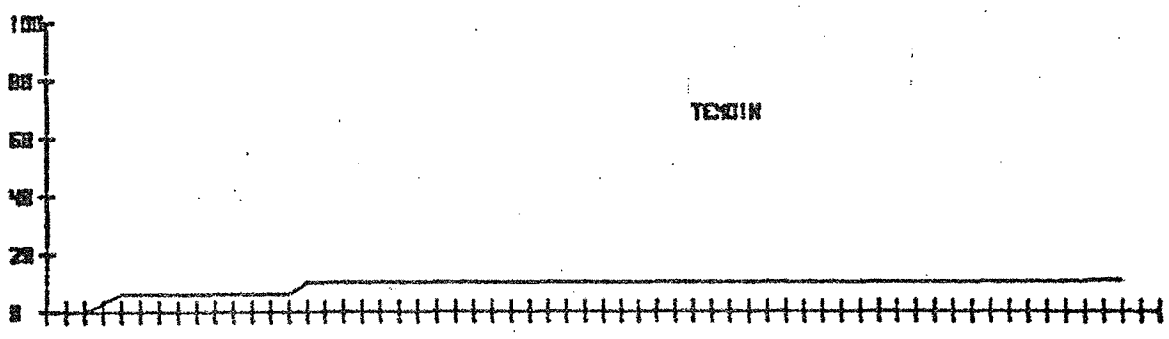
EXPERIENCE 4 :
POURCENTAGES DE MUES DE P. SERRATUS AU COURS DU TEMPS



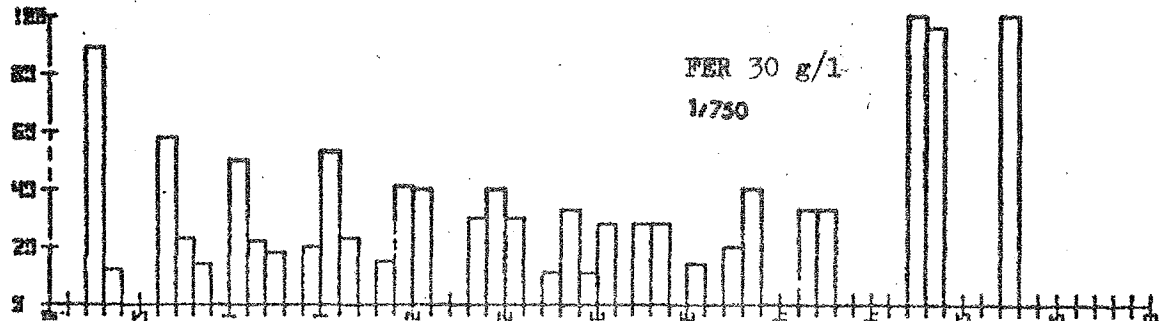
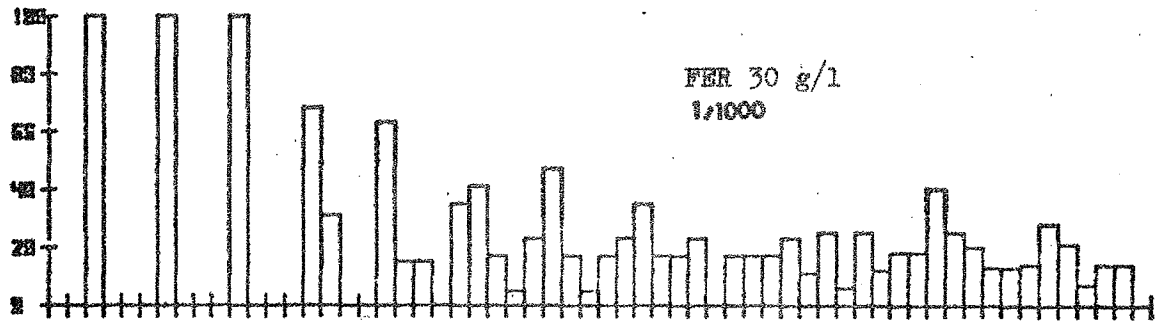
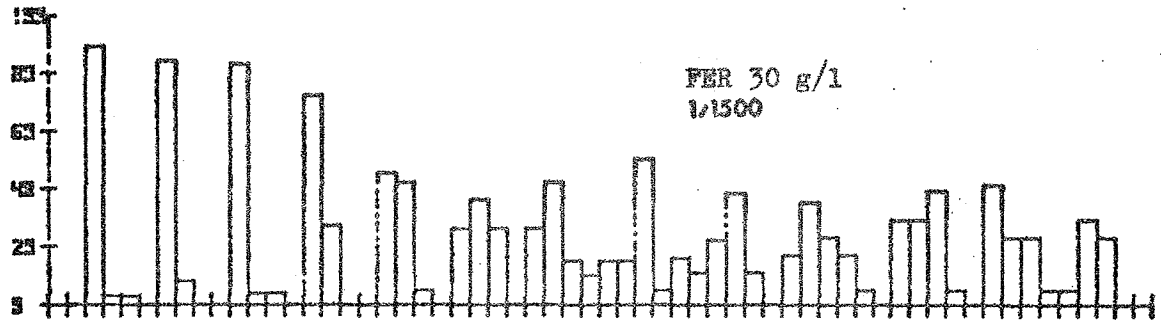
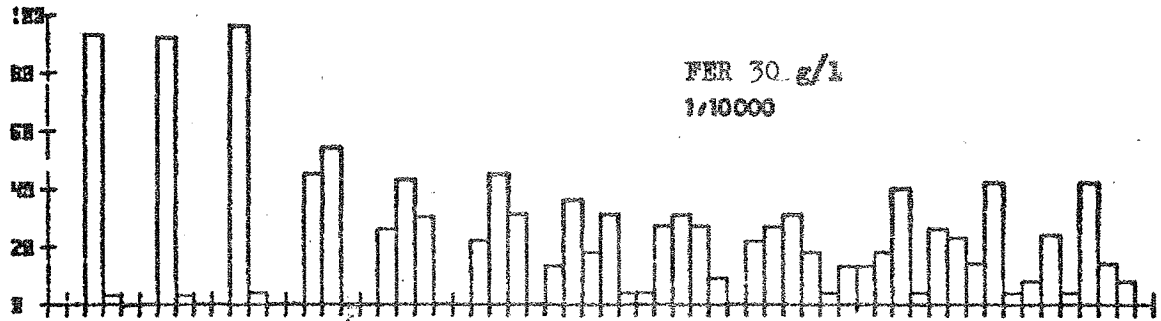
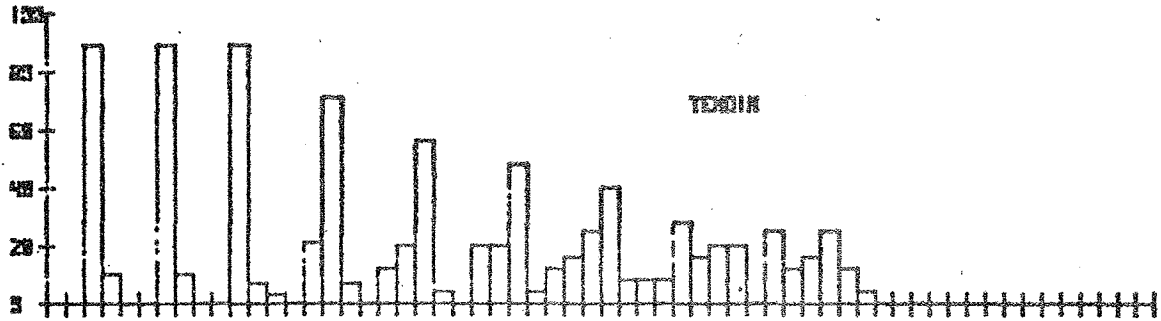
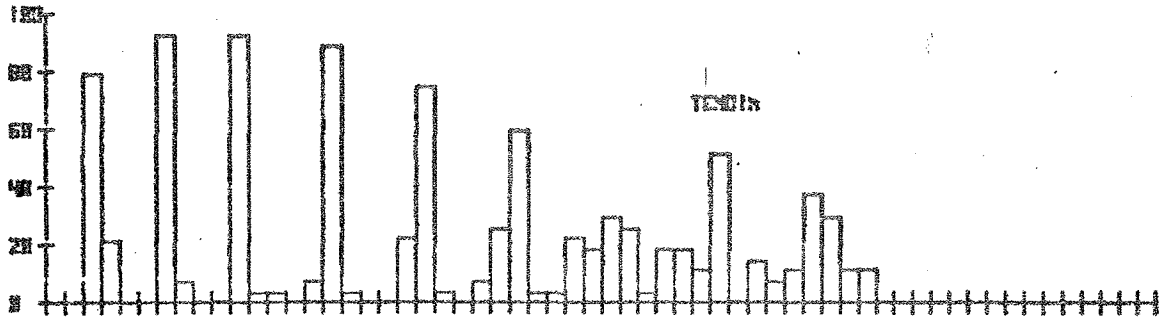
EXPERIENCE 4 :
POURCENTAGES DE MORTALITES DE P. SERRATUS AU COURS DU TEMPS



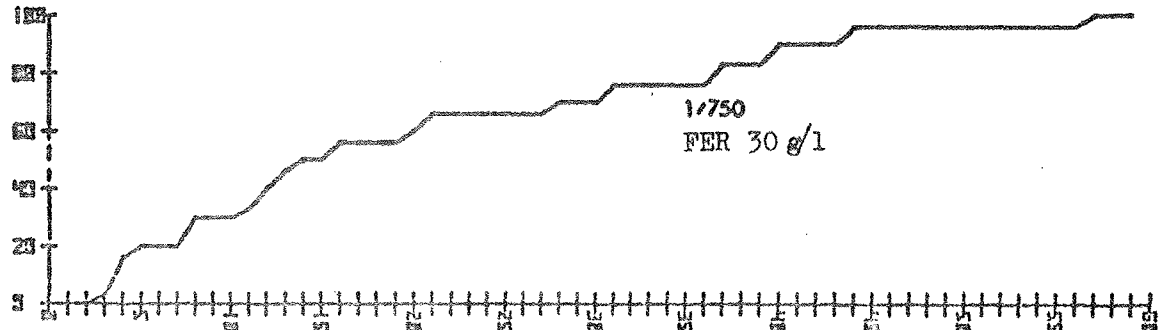
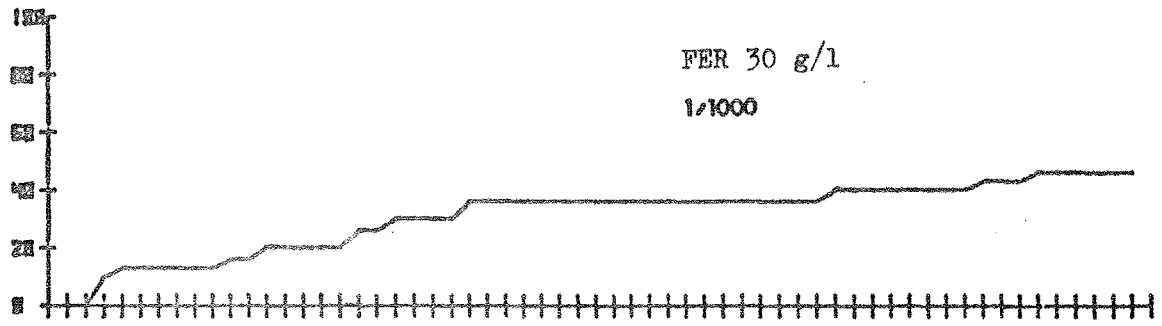
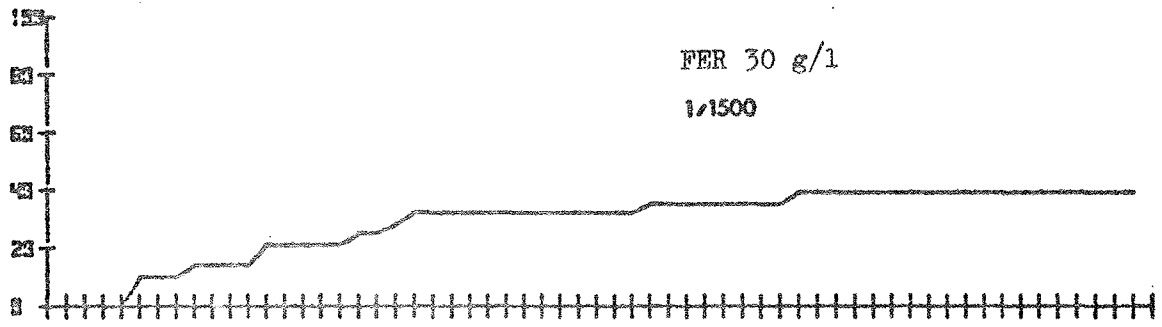
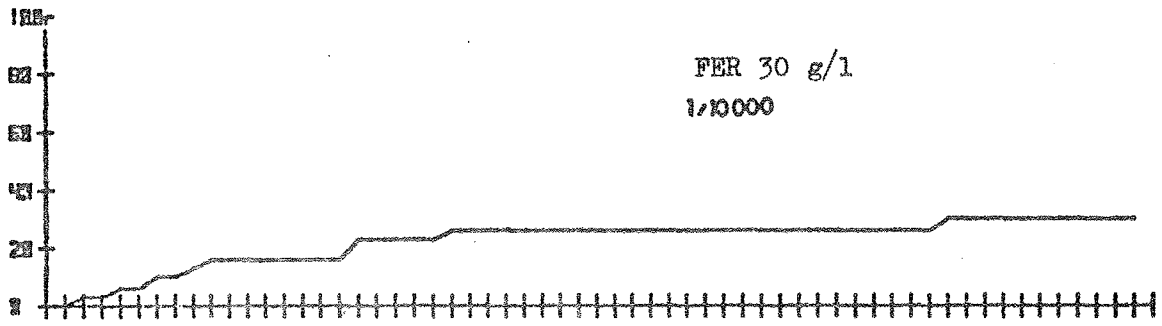
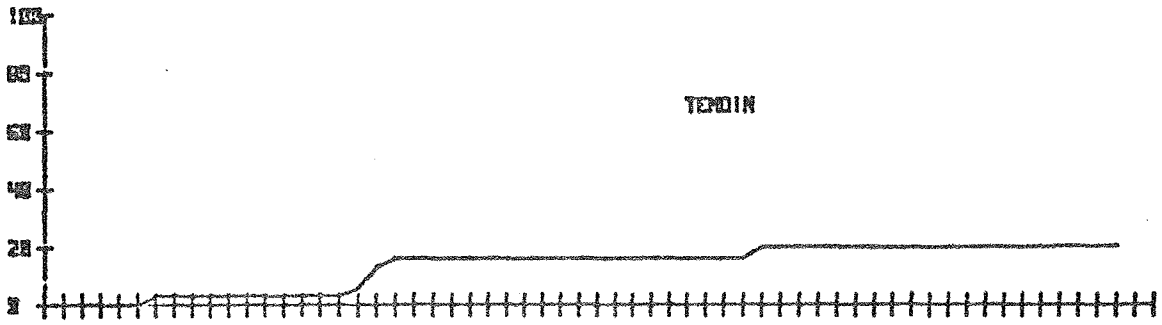
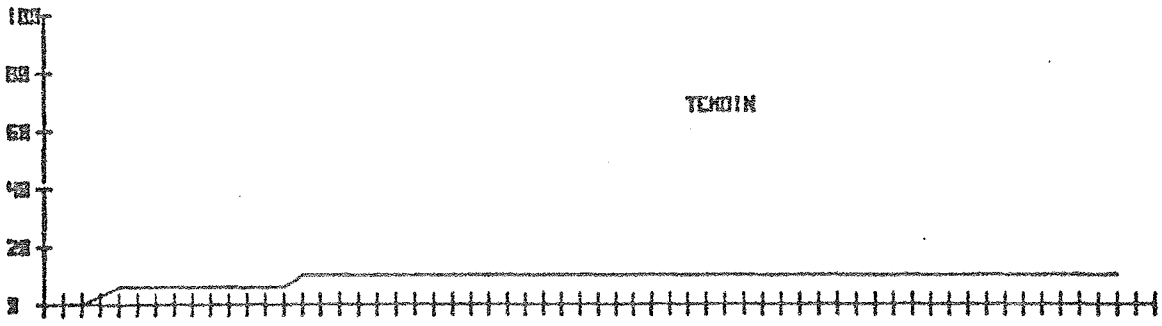
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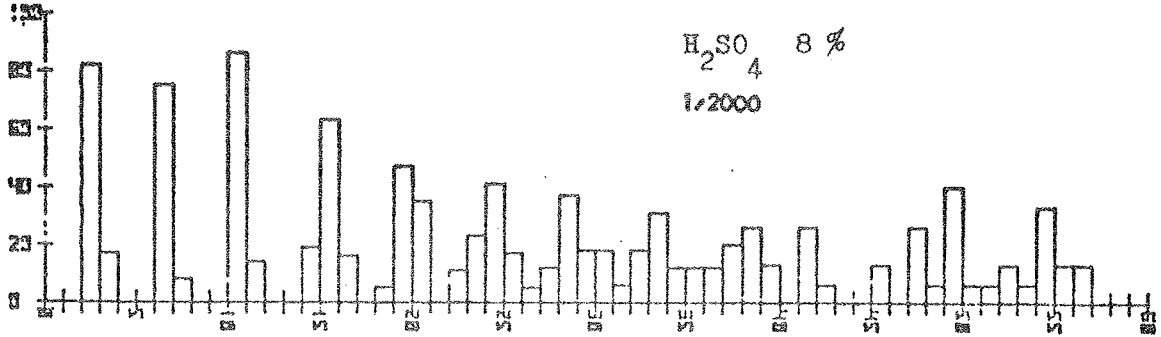
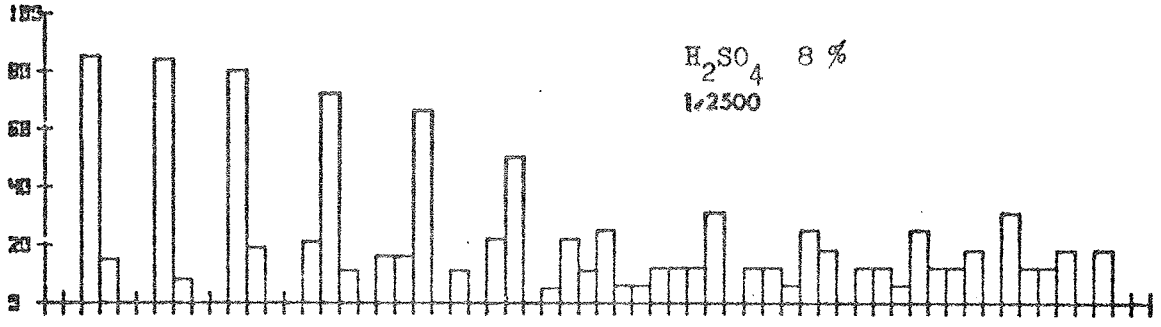
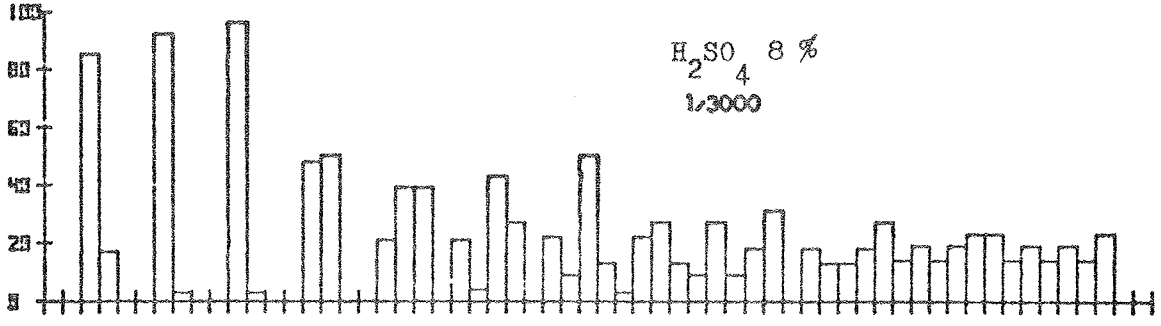
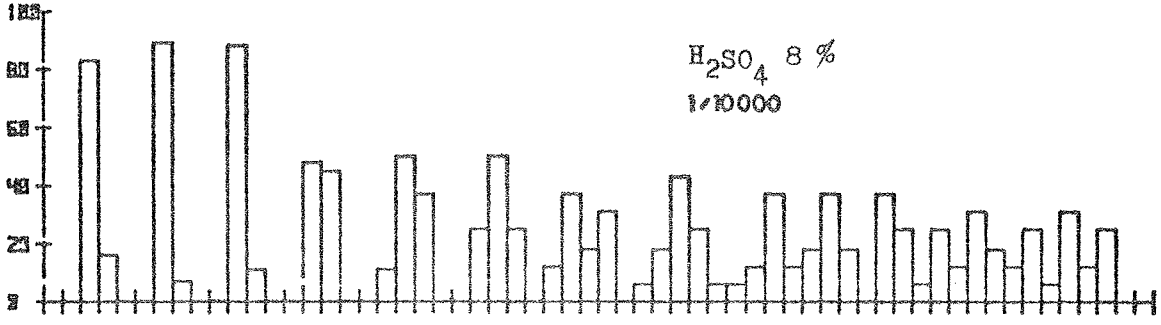
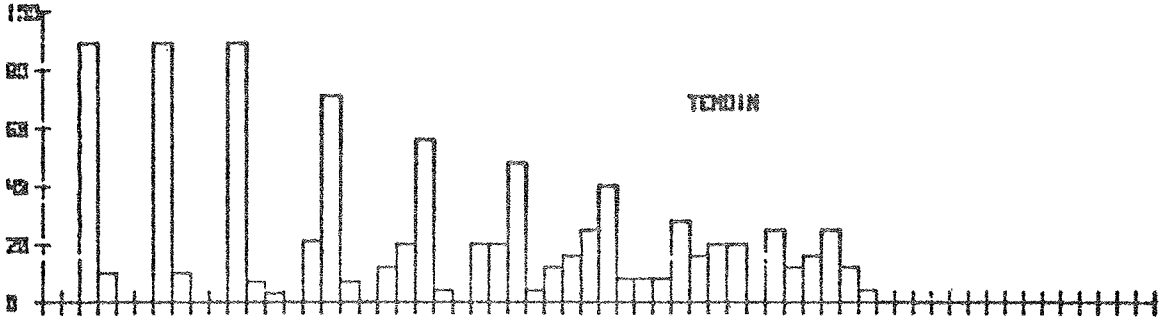
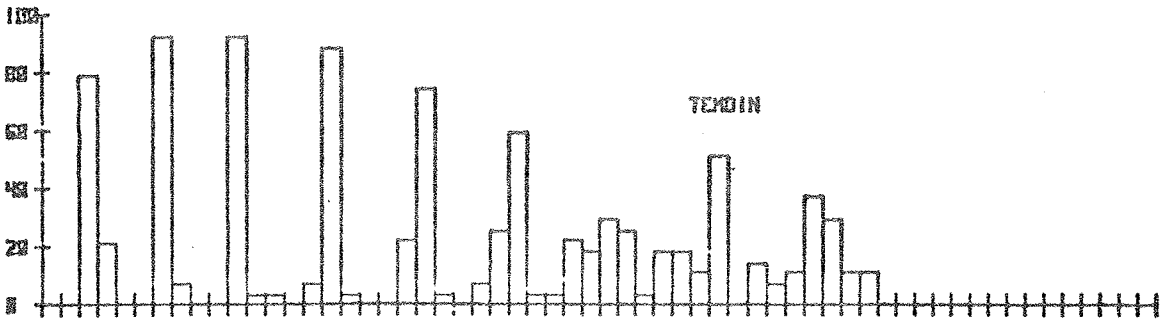
EXPERIENCE 5 : POURCENTAGES DE MORTALITES DE *P. serratus* AU COURS DU TEMPS.



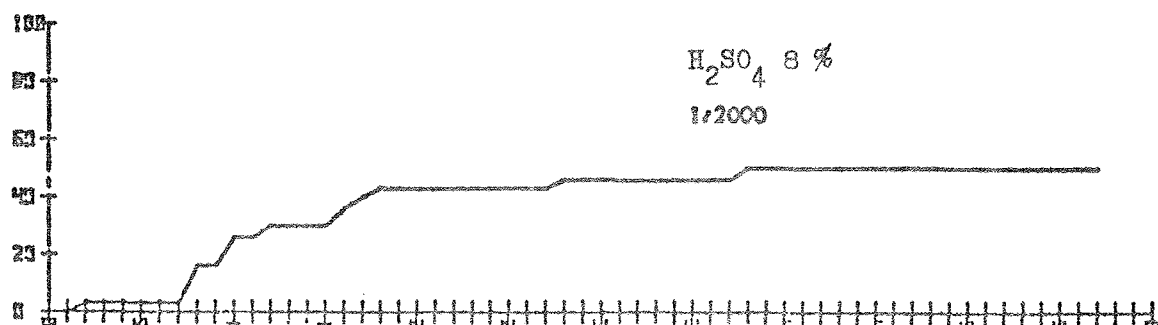
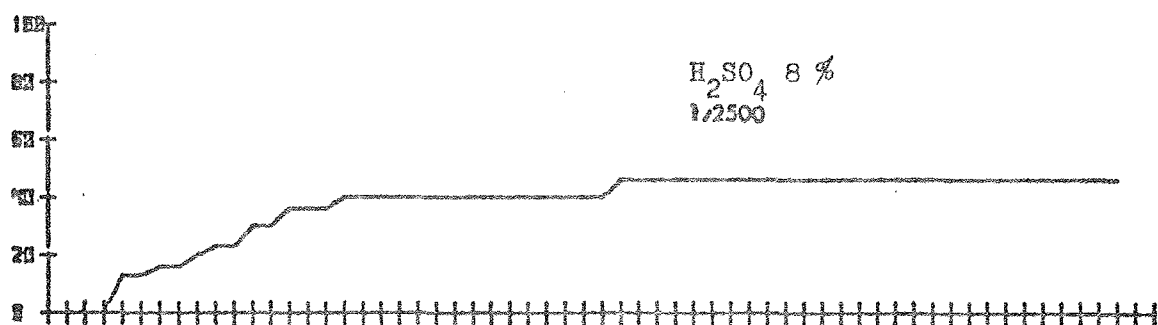
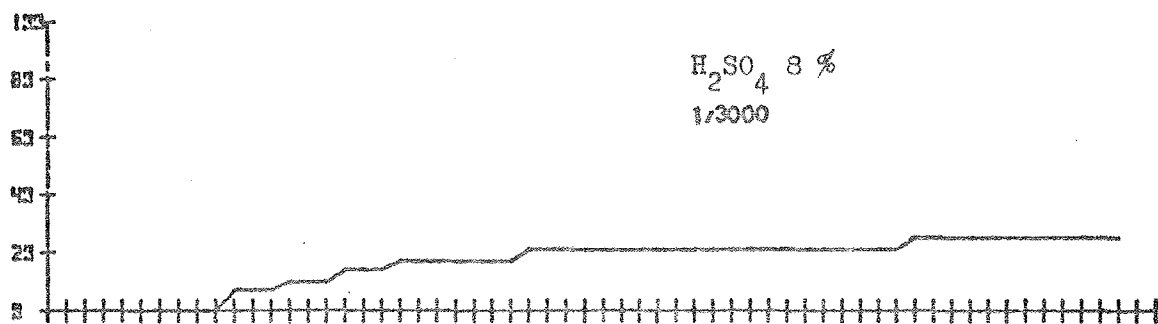
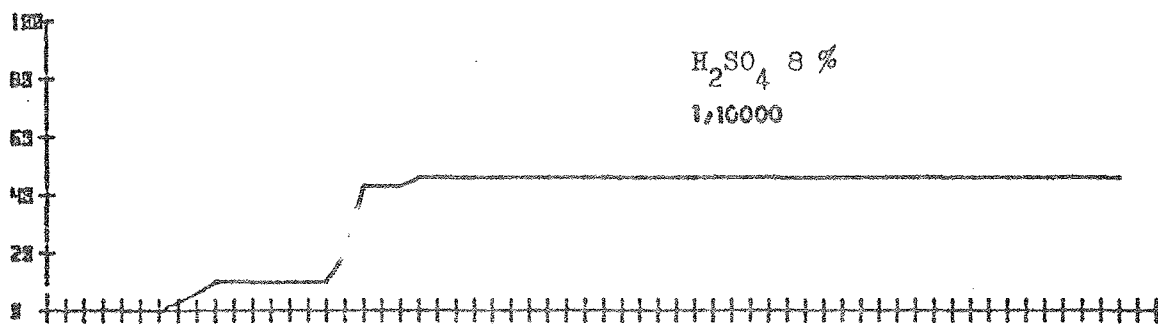
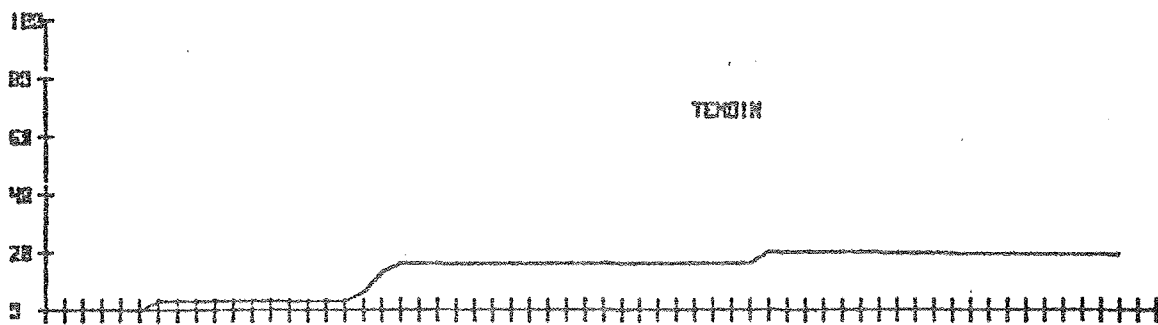
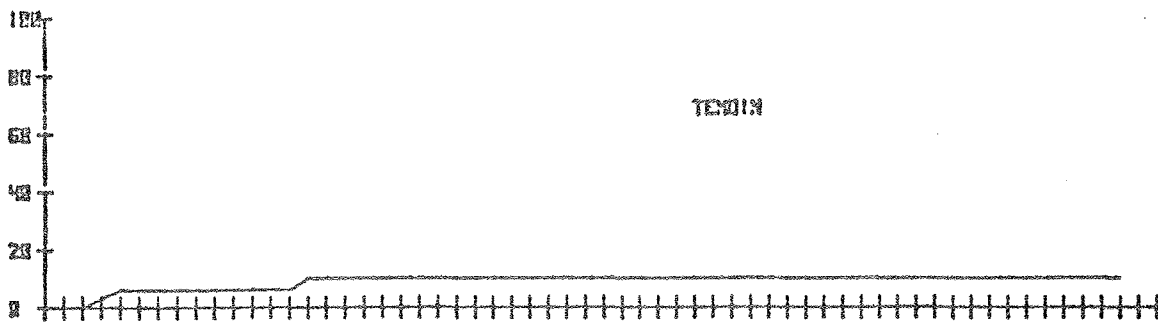
EXPERIENCE 5 : POURCENTAGES DE MUES DE *P. serratus* AU COURS DU TEMPS.



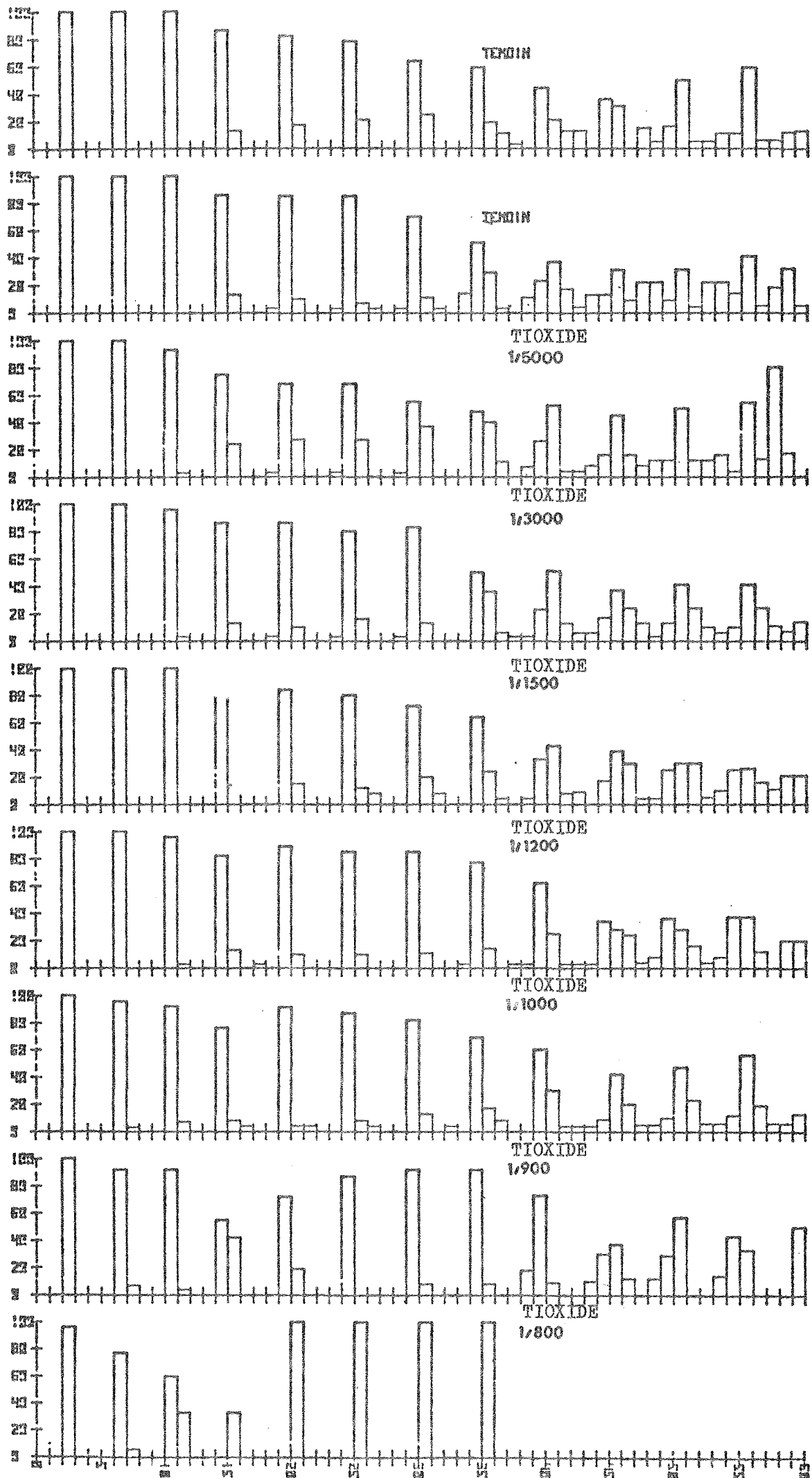
EXPERIENCE 5 : POURCENTAGES DE MORTALITES DE *P. serratus* AU COURS DU TEMPS.



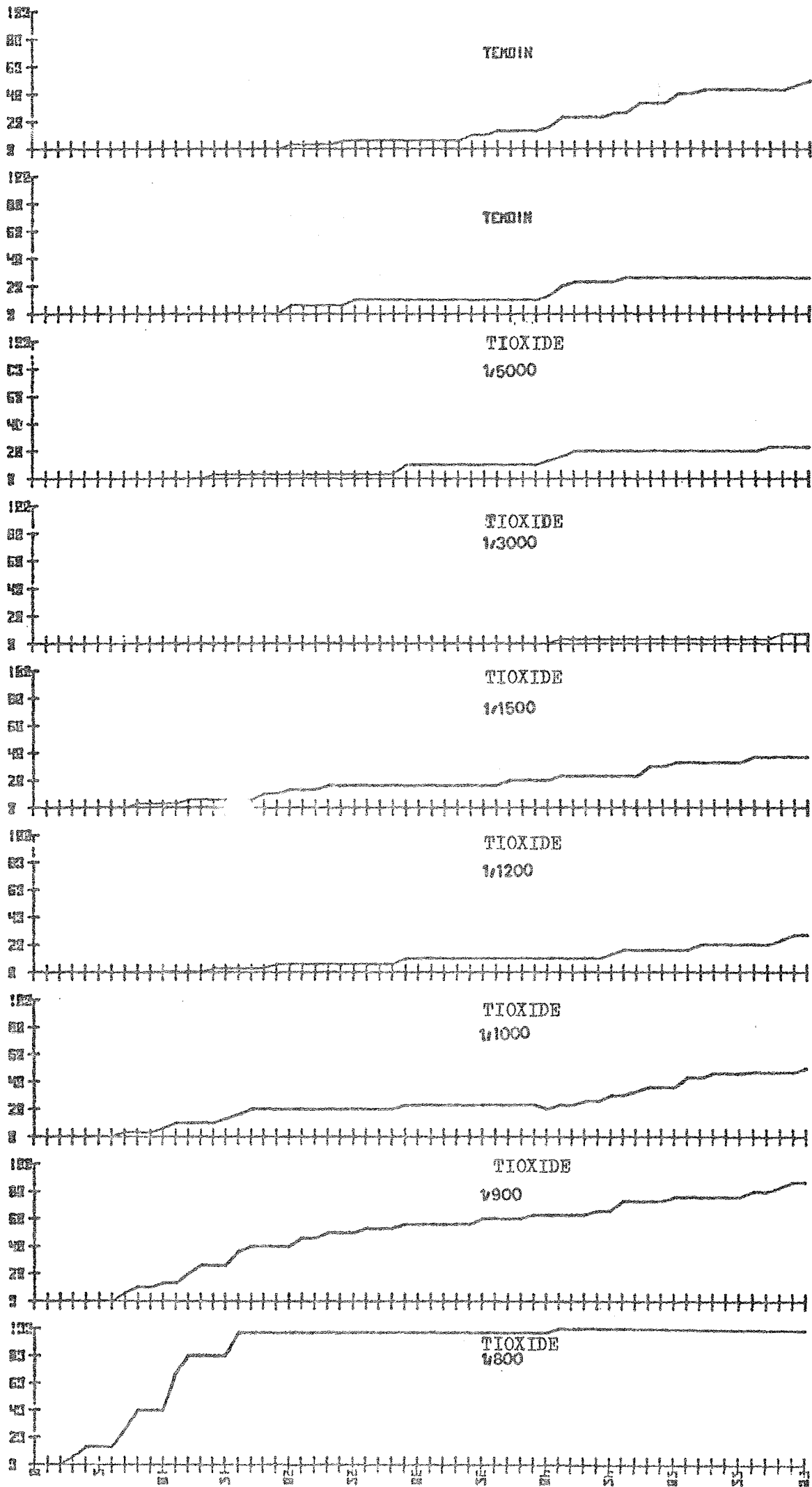
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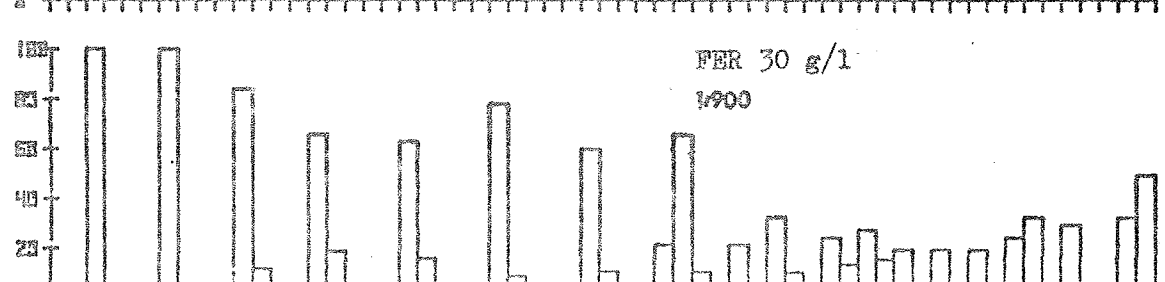
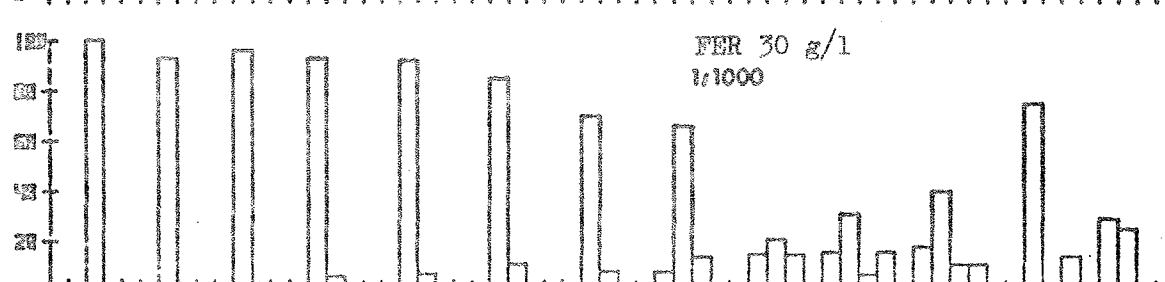
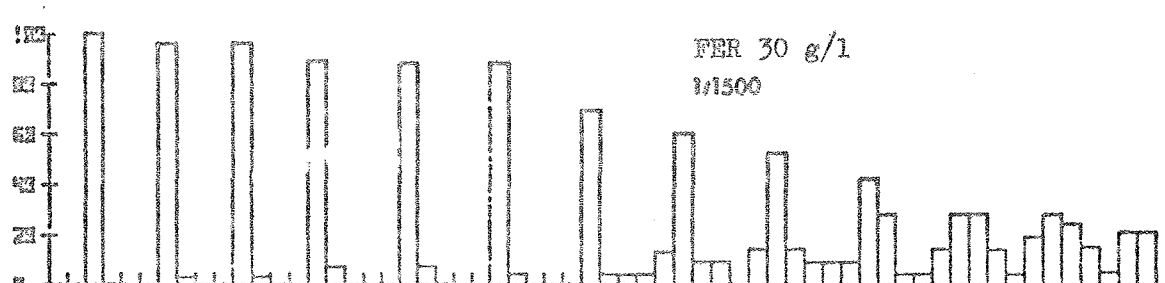
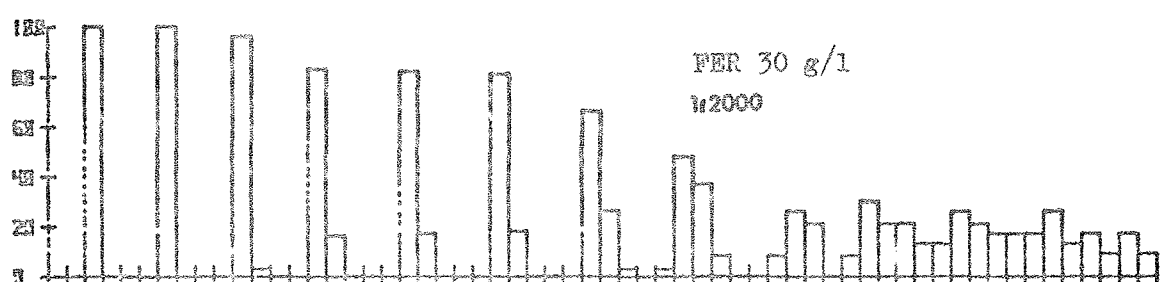
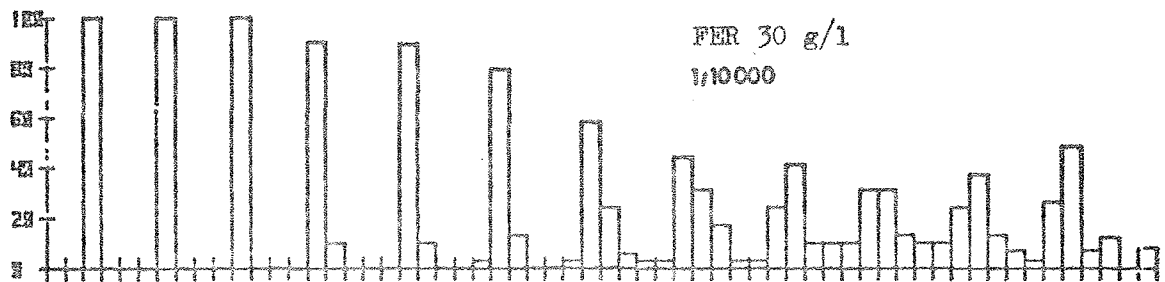
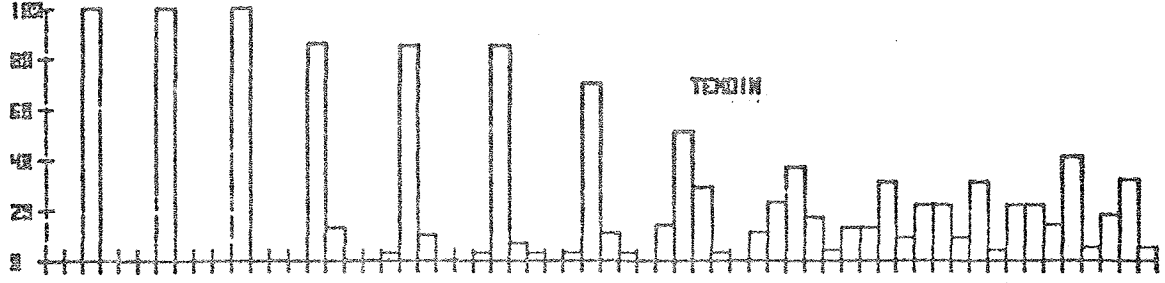
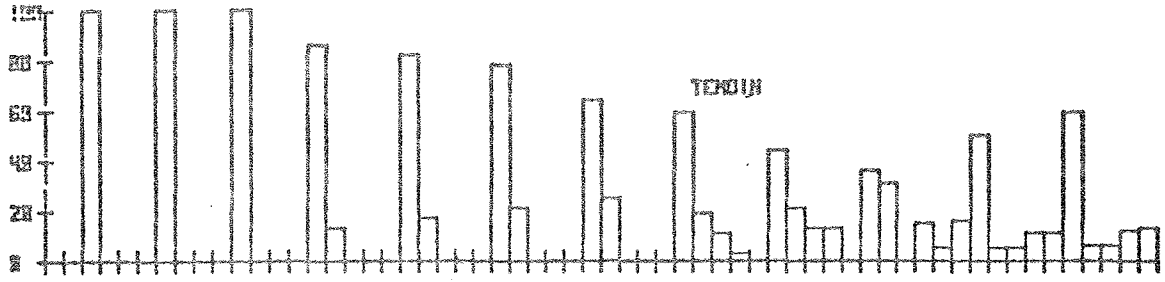
EXPERIENCE 5 : POURCENTAGES DE MORTALITES DE P. serratus AU COURS DU TEMPS.



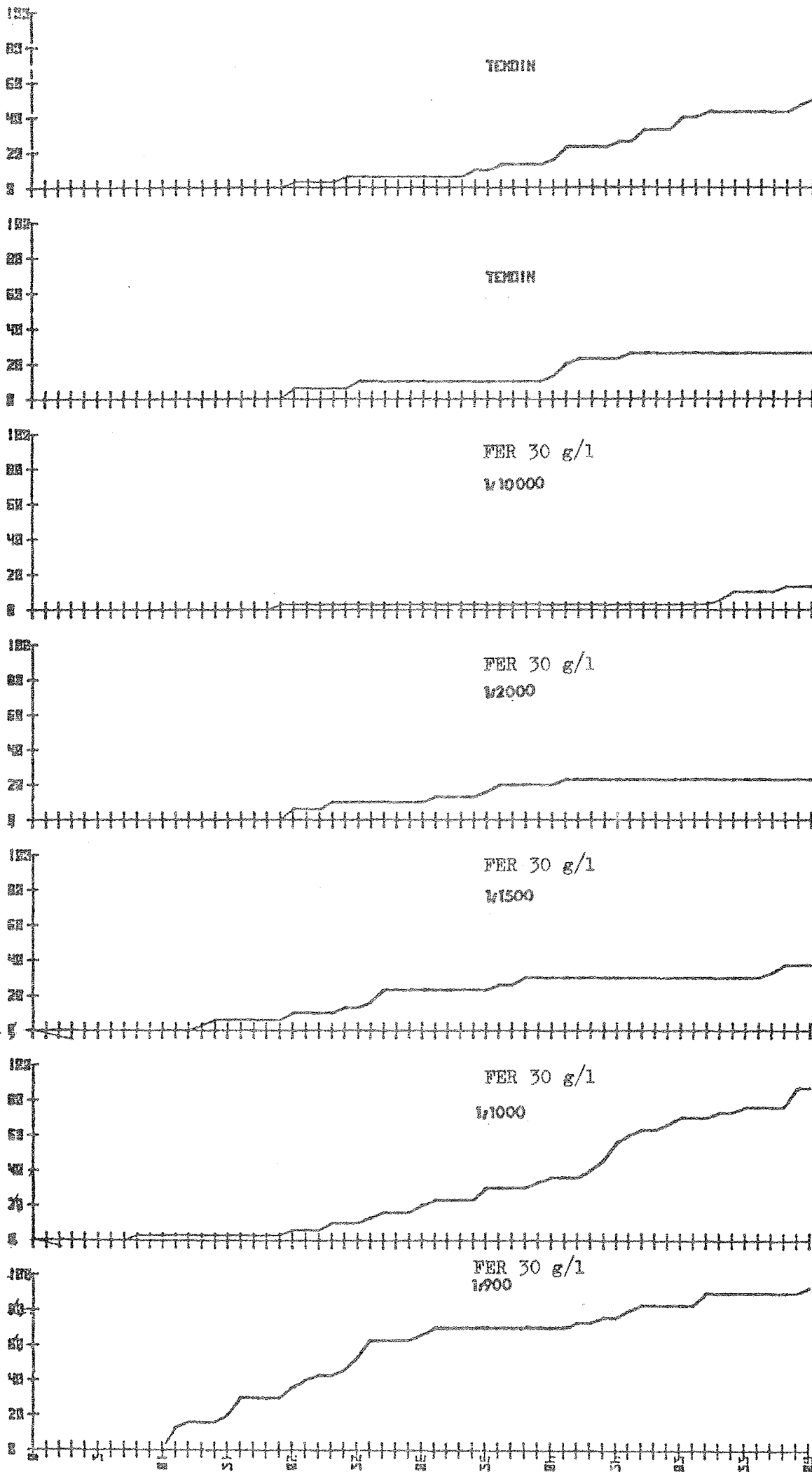
EXPERIENCE 6 : POURCENTAGES DE MUES DE *P. serratus* AU COURS DU TEMPS.



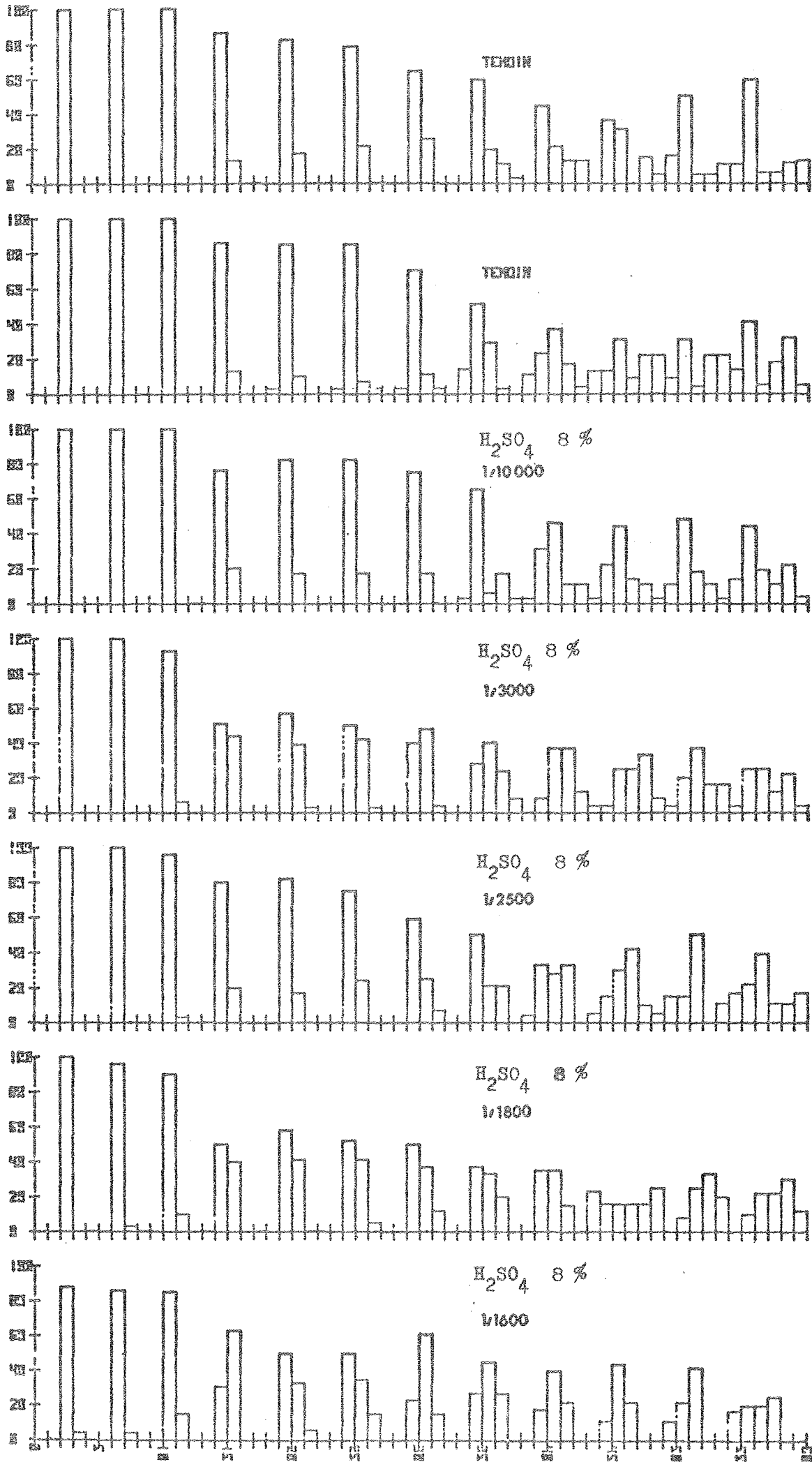
EXPERIENCE 6 : POURCENTAGES DE MORTALITES DE P. serratus AU COURS DU TEMPS.



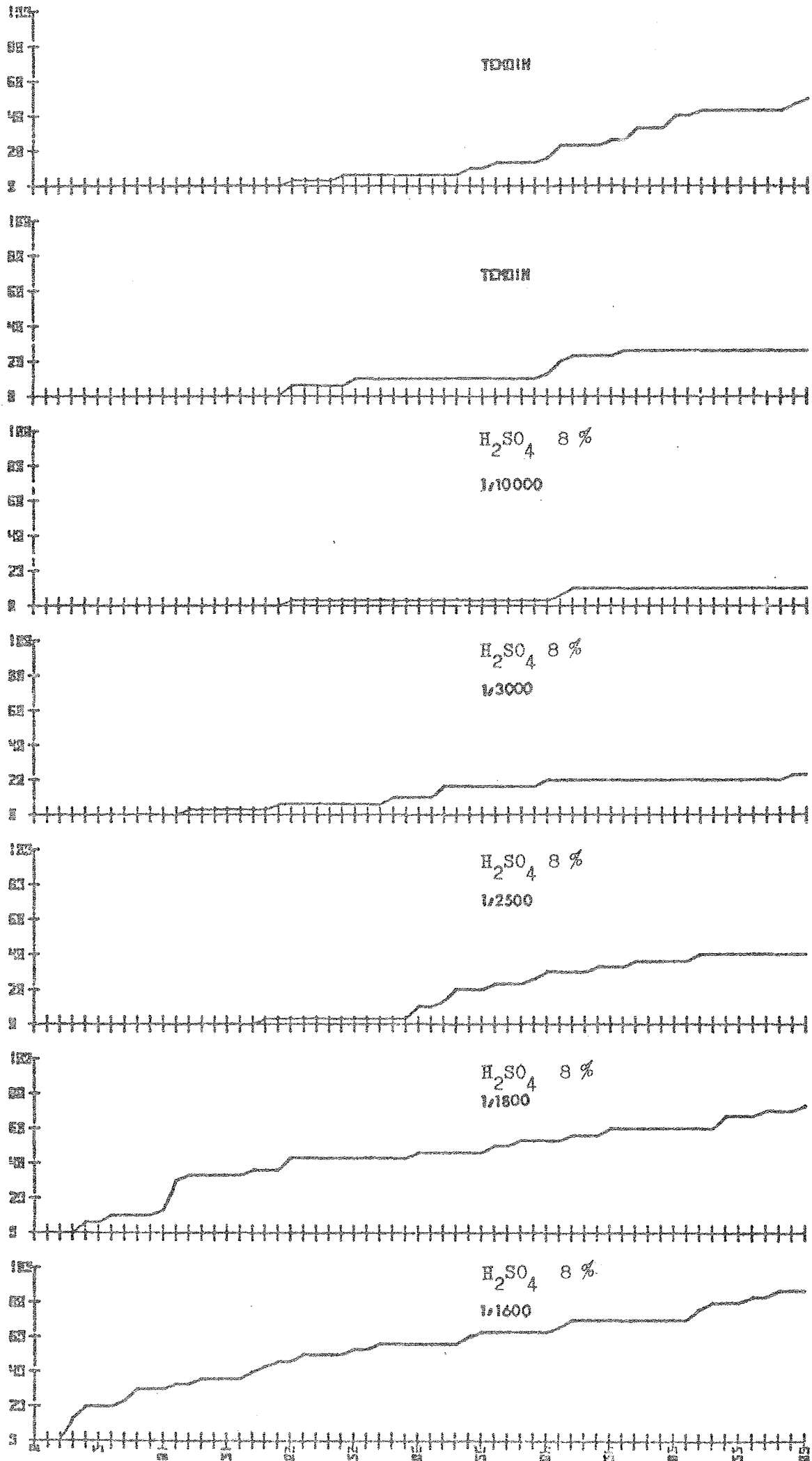
EXPERIENCE 6 : POURCENTAGES DE MUES DE *P. serratus* AU COURS DU TEMPS.



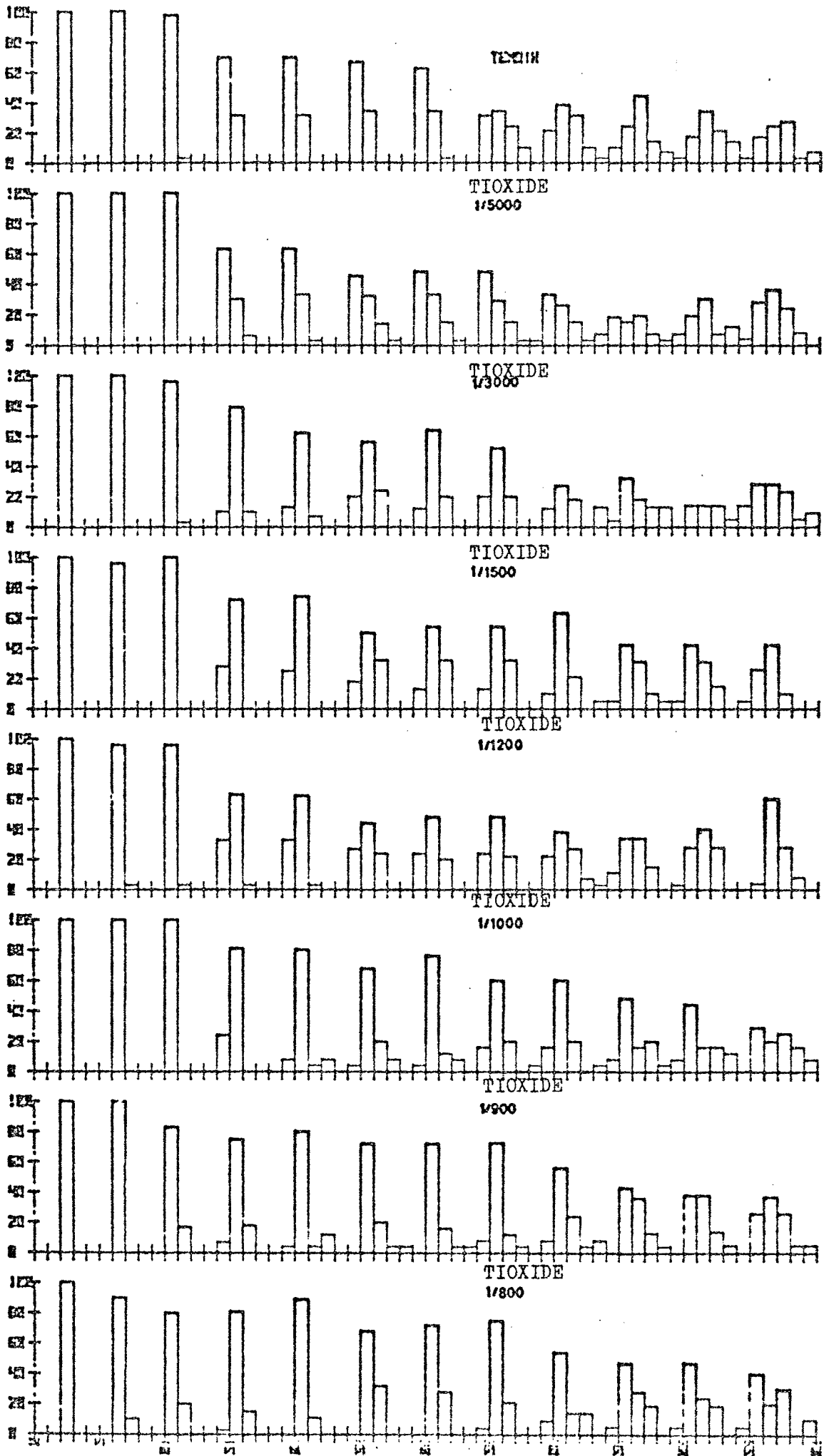
EXPERIENCE 6 : POURCENTAGES DE MORTALITES DE P. serratus AU COURS DU TEMPS.



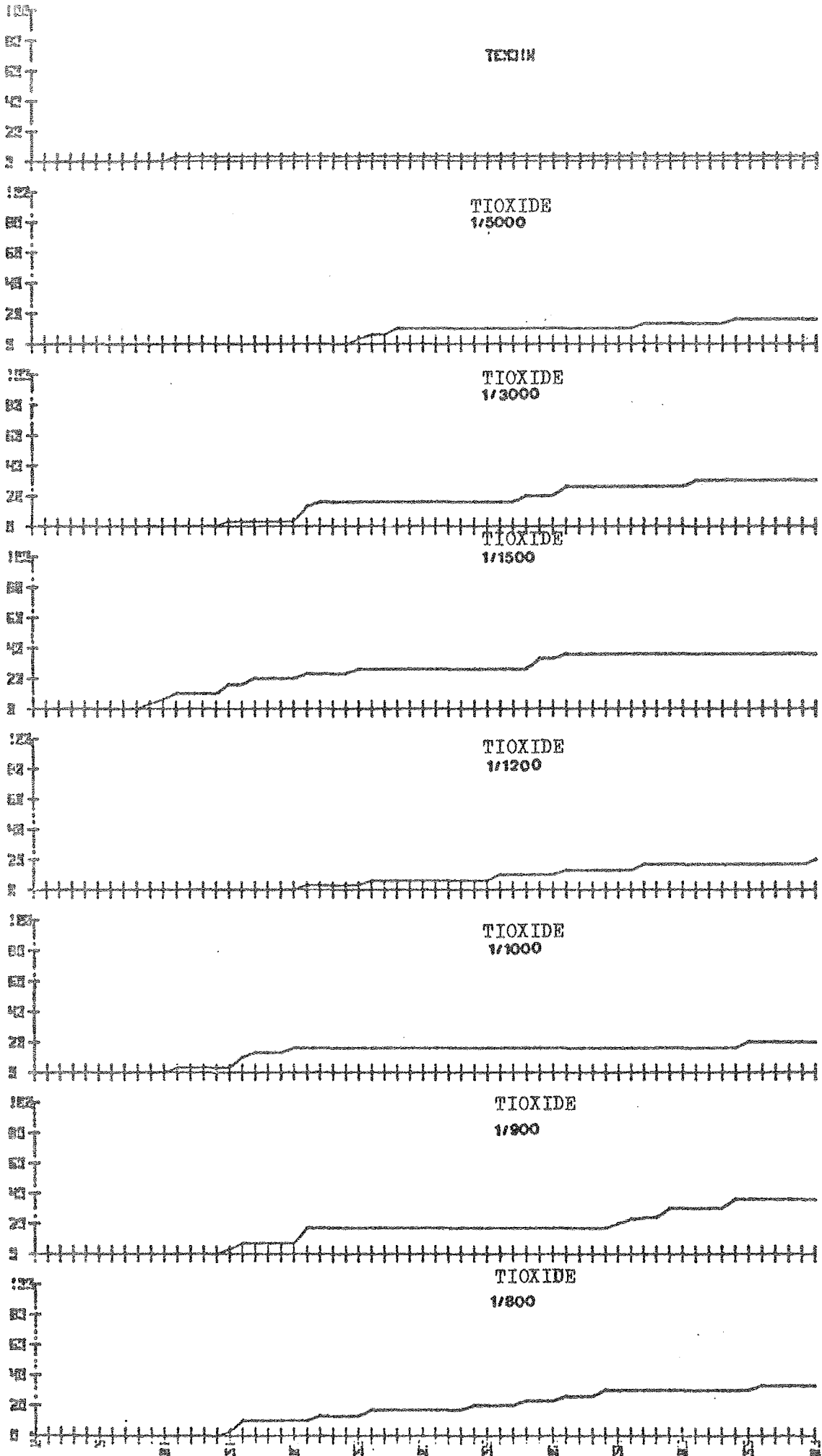
EXPERIENCE 6 : POURCENTAGES DE NUES DE *P. serratus* AU COURS DU TEMPS.



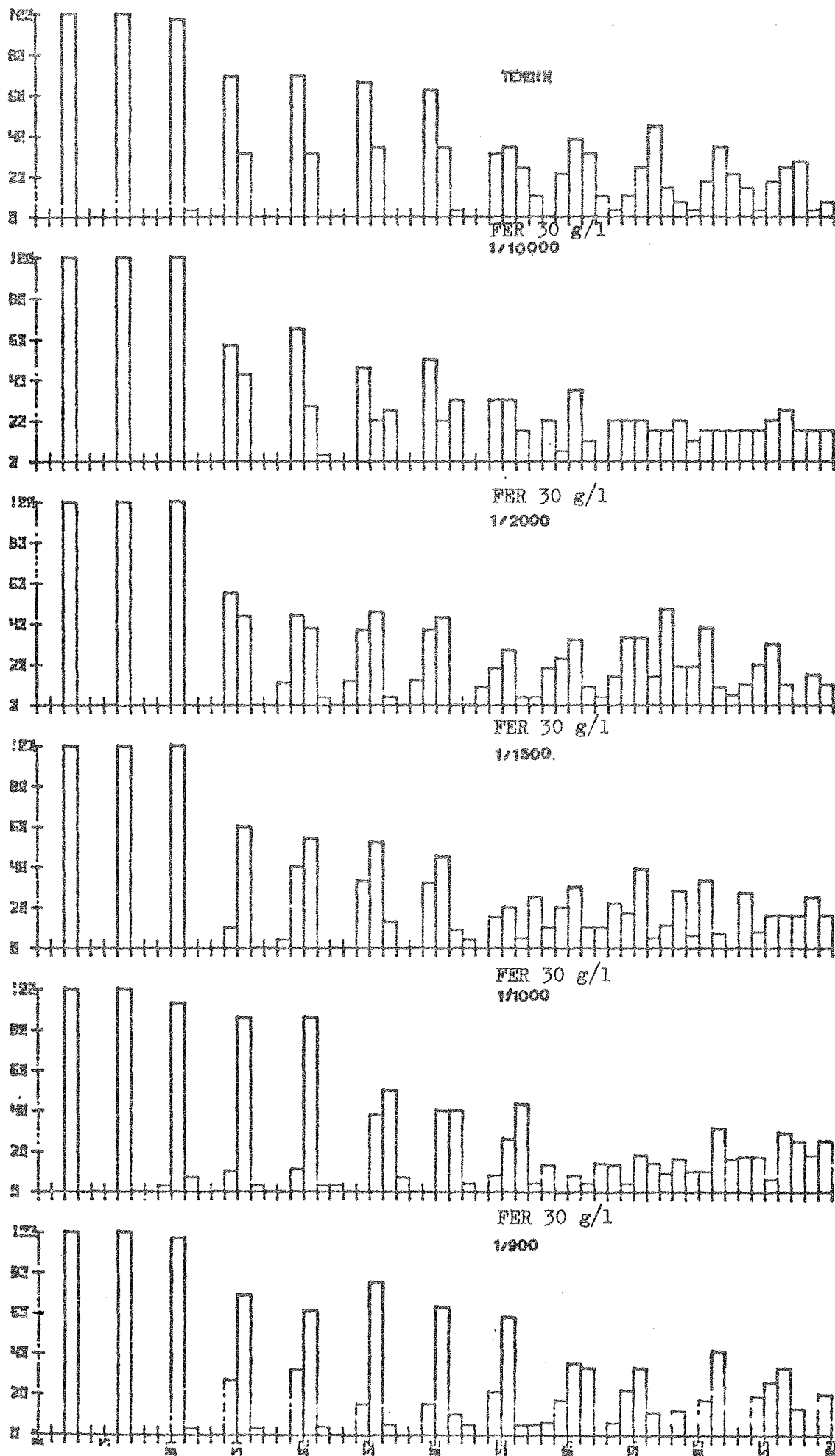
EXPERIENCE 6 : POURCENTAGES DE MORTALITES DE *P. serratus* AU COURS DU TEMPS.



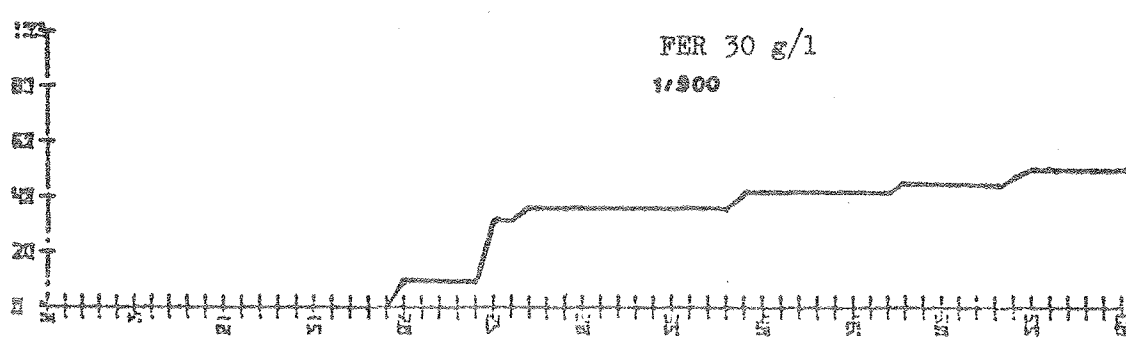
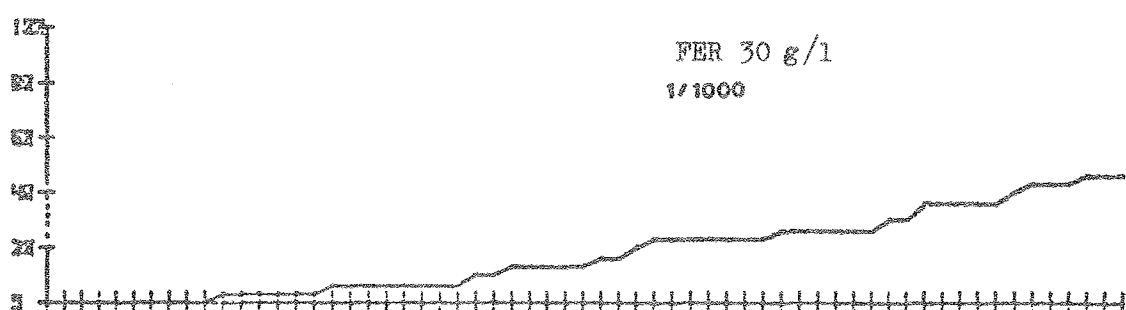
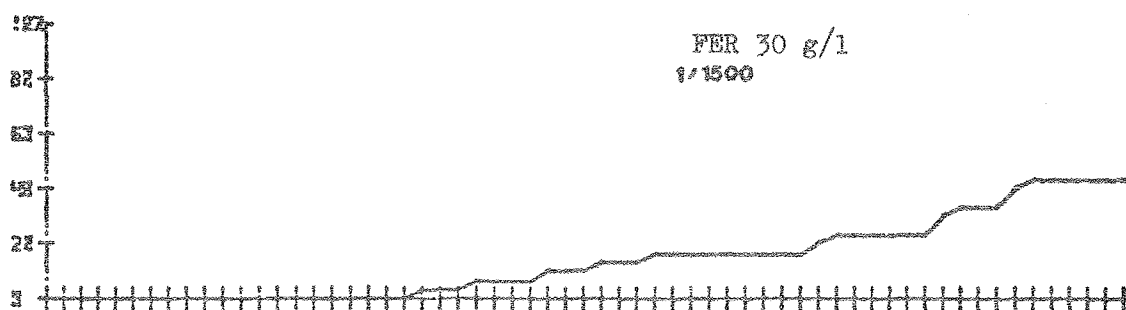
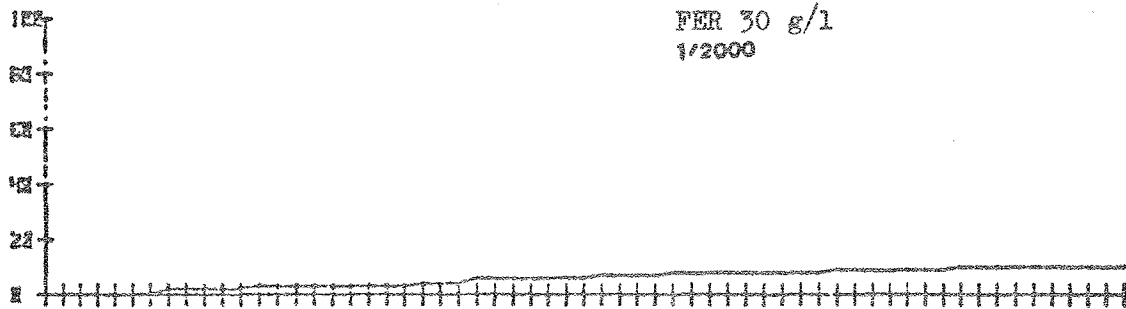
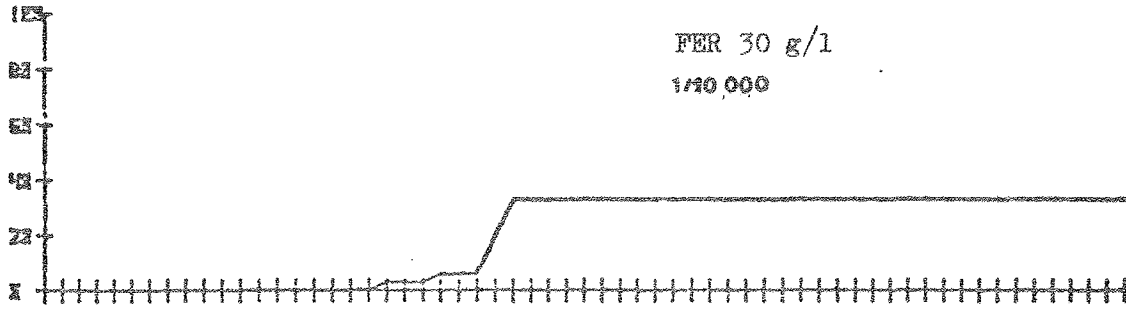
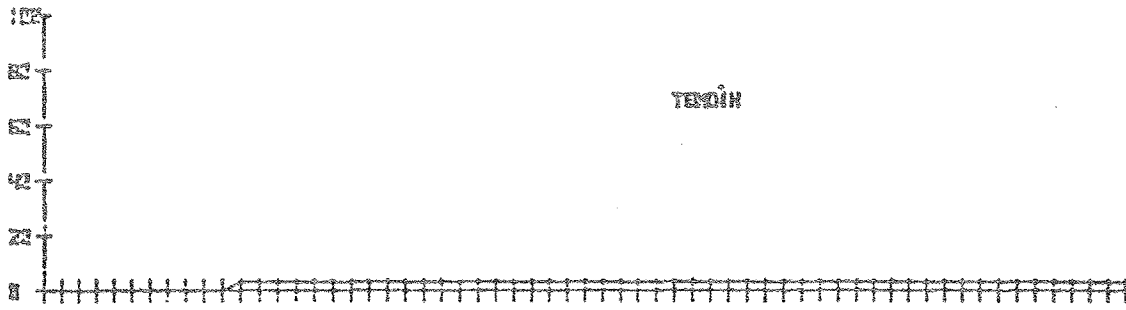
EXPERIENCE 7 : POURCENTAGES DE MUES DE *P. serratus* AU COURS DU TEMPS.



EXPERIENCE 7 : POURCENTAGES DE MORTALITES DE *P. serratus* AU COURS DU TEMPS



EXPERIENCE 7 : POURCENTAGES DE MUES DE *P. seriatus* AU COURS DU TEMPS.



EXPERIENCE 7 : POURCENTAGES DE MORTALITES DE P. serratus AU COURS DU TEMPS.