



Association Française  
pour l'Etude des Eaux

DOCUMENT NON SELECTIONNE

NUMERO G 11374

Trop spécialisé

Sans intérêt

Pas de mon domaine

Pas le temps

NOM: M. SOUCHET

DATE ENVOI: 20 NOV 1990

DATE RETOUR: 21 JAN 1991

66 / 72454

FICHE D'INDEXAGE

```

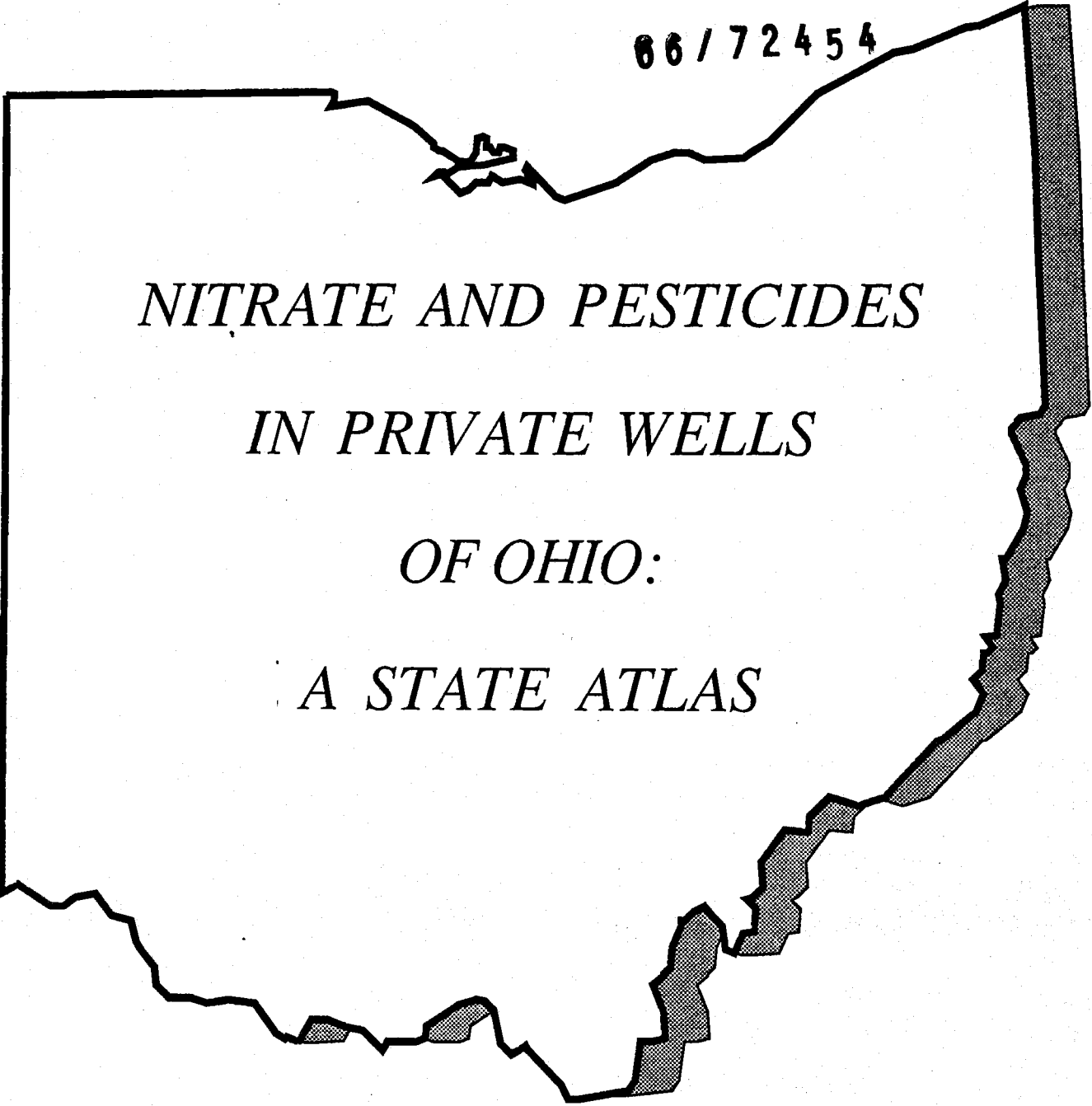
*****
*AUTEURS .BAKER DB,WALLRABENSTEIN LK,RICHARDS RP,CREAMER NL      *
*-----*
*TYPE     .CONFERENCE                                           *
*-----*
*TITRE    .Nitrate and pesticides in private wells of Ohio,a state *
*         *Atlas,Part 1 state summary,Part 2 County summaries    *
*-----*
*SOURCE   .TIFFIN,WATER QUAL LAB,CR CONF 1989/06,TIFFIN,OHIO,USA, *
*-----*
*DATE     .1989                                                  *
*-----*
*PAGES    .304 + CARTES + FIG + TABL                             *
*-----*
*COTE     .G11374                                               *
*-----*
*
*
*****

```

Titre original :

Nitrate et pesticides dans des puits privés. Résultats analytiques, programmes de lutte contre la pollution, perspectives des techniques agricoles. Présentation et monographies des 76 comtés de l'Etat : cartes des teneurs en nitrate. G 11374.

66/72454



*NITRATE AND PESTICIDES  
IN PRIVATE WELLS  
OF OHIO:  
A STATE ATLAS*

*PART 1 STATE SUMMARY*

*PART 2 COUNTY SUMMARIES*

*THE WATER QUALITY LABORATORY, HEIDELBERG COLLEGE*

611374

RESUME

.This atlas presents information on nitrate and pesticide  
.concentrations in private water systems of Ohio. The atlas consists  
.of two major parts. The contents of each of these parts is briefly  
.outlined below. Part 1 - state summary, A-Introduction, water quality  
.issues associated with Ohio's private water systems, B-Program methods,  
.C-Program limitations, D-Program results, E-Summary, F-Perspectives on  
.agricultural contamination of Ohio's private water systems, Part 2 -  
.County summaries. In this part of the atlas, four-page summaries of  
.nitrate data are presented for each of the 76 counties that  
.participated in the program.

## **INTRODUCTION TO THE STATE ATLAS**

This atlas presents information on nitrate and pesticide concentrations in private water systems of Ohio. The atlas consists of two major parts. The contents of each of these parts is briefly outlined below.

### **PART 1 - STATE SUMMARY**

- A. Introduction: Water Quality Issues Associated with Ohio's Private Water Systems
- B. Program Methods
- C. Program Limitations
- D. Program Results
- E. Summary
- F. Perspectives on Agricultural Contamination of Ohio's Private Water Systems

### **PART 2 - COUNTY SUMMARIES**

In this part of the atlas, four-page summaries of nitrate data are presented for each of the 76 counties that participated in the program.

In addition to this state atlas, a second document, entitled *Nitrate and Pesticides in Private Wells of Ohio: Technical Reports*, is in preparation and will be available from the Water Quality Laboratory in December 1989. The technical reports will include more detailed information on selected parts of the program.

Many of the figures and tables presented in this atlas, including the county maps in Part 2, are available as 35 mm colored slides. Copies of these slides, as well as copies of the entire atlas, Part 1, or individual county summaries from Part 2, may be ordered from the Water Quality Laboratory.

# TABLE OF CONTENTS

Figures.....	ii
Tables.....	iv

## PART I - STATE SUMMARY

A. Introduction: Water Quality Issues Associated with Ohio's Private Water Systems.....	1
The Role of Private Water Systems in Ohio.....	1
Water Quality Information Needs in Ohio's Private Water Systems.....	2
Some Specific Concerns About Agricultural Contamination of Groundwater.....	3
An Approach for Assessing Statewide Agrichemical Contamination of Groundwater.....	5
B. Program Methods.....	6
Statewide Nitrate Survey.....	6
Variability of Nitrate in Private Wells.....	11
Pesticides in Private Wells.....	13
C. Program Limitations.....	16
Limitations of Study Content.....	16
Study Exclusions.....	17
D. Program Results.....	19
Statewide Nitrate Survey.....	19
Variability Study.....	49
Herbicide Survey.....	52
E. Summary.....	60
F. Perspectives on Agricultural Contamination of Ohio's Private Water Systems.....	62
Nitrate Contamination.....	62
Herbicide Contamination.....	64
REFERENCES.....	69