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## ABSTRACT

This report presents an analysis of data gathered in a follow up study of the $1978 / 79$ graduates from the college of Education at ohio State university. The survey included graduates who chose a profession other than teaching as well as currently practicing teachers. Data was gathered in some depth from nealth education and nath/science graduates. A Demographic/Professional Perspective questionnaire was sent to all graduates. Teachers also received a Concerns/Problens questionnaire. A sumary of the responses on each ites in the questionnaires is given in tabular form acconpanied by a narrative analysis. An overview is presented of the characteristics of the teachers responding to the survey. Ihe appendix includes percentage tables on each of the 56 items in the teacher concerns questionnaire. (JD)

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## FOLLON-UP PROTECT

## TECHNICAL REPORT 45 (1980)

DR. GARY delos,
DIRECTOR

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Technical Report \#5: Follow-Up of 1978/79 Graduates at The Ohio State University's College of EJucation 'reacher Certification Program

1980

## Prepared by:

Dr. Gary devoss
Dr. Donalã Hawk

Produced for the OSU College of Education as part of a total erfort to redesign teacher education. This project is funded entirely from State of Ohio, Department of Education Project 419 monies.

## Table of Contents

Page
Part I:
Introduction ..... 1
History of the OSU Follow-Up Project. ..... 1
How This Year's'Stüdy Was Done. ..... 3
Part II:
Sumnary of Demographic Information. ..... 23
The Typical Graduate: A Composite Portrait ..... 23
Current Employment. ..... 25
Age, Sex, and Race. ..... 26
Years Teaching Experience ..... 28
Program Area. ..... 29
Educational Placenent Services ..... 30
Future Professional Study ..... 32
Enployment Related to Degree, But Not Teaching ..... 32
Seeking a Teaching Position ..... 33
Reasons For Not Teaching ..... 33
Regret For Not Teaching ..... 34
Current Enployment of Non-Teaching Graduates ..... 34
Happy in Current Position ..... 35
Usefulness of Education Degree ..... 36
nurrent Educational Erployment. ..... 36
Aid in Securing Emoloyment. ..... 37
How Did You Obtain Your First Teaching Position? ..... 38
Location of School in Which You Teach ..... 39
Typical Student Motivation ..... 39
Classroom Discipline. ..... 40
Parent Participation. ..... 40
Typical Socio-Ecoromic Status of Students' Families ..... 41
Racial Mix of Pupils. ..... 41
Pupil-Teaching Ratio ..... 42
School Size ..... 42
School Type ..... 43
Type of Classroom ..... 43
Grade ievel Taugint. ..... 44
Attituce Toward Teaching in General ..... 44
Attitudie Ioward Present Teaching Position ..... 45
Perceptions of Professional Preparation. ..... 46
Uograding Teaching Effectiveness. ..... 47
Most Valuable Library-Nedia Center Service ..... 48
Guidance Staff Availabil.ity ..... 48
Assistance with Discipline Problems ..... 49
Supervision of Extracurricular Activities ..... 50

## Table of Contents (cont'd)

Page
Evaluation of Teaching By School Administrators ..... 51
Fomal Evaluation of Teaching ..... 51
Means of Evaluating Teaching ..... 52
Most Help to Professional Development ..... 53
Key Person tho Provided Support ..... 54
Teacher Wamth and Closeness Versus Getting Work Done. ..... 54
Major Attraction of Teaching ..... 55
General Comments ..... 55
Sumary of Demographic/Professional Perspectives from 1975-79 Math/Science Graduates ..... 57
A Compasite Portrait. ..... 57
Current Employment ..... 58
Age, Sex, Race ..... 59
Years Teaching Experience ..... 60
Students Who Transferred to Ohio State. ..... 61
Program Area. ..... 61
Educational Placement Service ..... 62
Future Professional Study ..... 64
Employment Related to Teaching, But Not Teaching. ..... 65
Seeking a Teaching Position ..... 65
Reasons for Not Teaching ..... 66
Regret for Not Teaching ..... 66
Current Employment of Non-Teaching Griduates ..... 67
Happy in Current Position ..... 67
Usefulness of Education Degree. ..... 68
Current Educational Enployment ..... 69
Aid in Securing Employment. ..... 69
How Did You Obtain Your First Teaching Position ..... 70
Iocation of School in Which you Teach ..... 71
Typical Student Motivation. ..... 71
Classroom Discipline. ..... 72
Parent Participation ..... 72
Typical Socio-Economic Status of Students' Families ..... 73
Racial Mix of Pupils ..... 73
Pupil-Teacher Ratio ..... 74
School Size ..... 74
School Type ..... 75
Type of Classroom ..... 75
Grade Level Taught ..... 75
Attitude Toward Teaching in General ..... 76
Attitude Toward Present Teaching Position ..... 77
Perceptions of Professional Preparation ..... 77
Upgrading Teaching Effectiveness. ..... 78
Most Valuable Library-Media Center Service ..... 80
Guidance Staff Availability ..... 80
Assistance With Discipline Problems ..... 81
Supervision of Extracurricular Activities ..... 82
Evaluation of Teaching By School Administrators ..... 82
Formal Evaluation of Teaching ..... 83
Page
Means of Evaluating Teaching ..... 84
Most Help to Professional Development ..... 84
Key Person Who Provided Support. ..... 85
Teacher Warmth and Closeness Versus Getting Work Done ..... 85
Major Attractions of Teaching. ..... 86
General Comments ..... 87
Sumary of Health Education Findings. ..... 88
Sumary of Teacher Concem Questionnaire. ..... 91
Degree of Concem ..... 91
Degree cf Preparation. ..... 92
Source of Preparation. ..... 92
Sumary of Teacher Concems 凤uestionnaire for Math/Science Graduates, 1975-79. ..... 94
Degree of Concem. ..... 94
Degree of Preparation. ..... 94
Source of Preparation. ..... 95
Sumary of Interview/Observation Results ..... 97
A Brief Sumary of Findings ..... 97
Instrumentation ..... 97
Interview Findings ..... 98
Sumary. ..... 104

## Appendices

Appendix A: Assessing the Generalizeability of the Demographic Findings
Appendix B: Means for All Teacher Concems Items, 1978/79 Graduates
Appendix C: Means for all Teacher Concems Items, 1975-79 Math/Science Graduates

Appendix D: (Under Separate Cover) Findings by Program Area

Introduction
During the past year, the Follow-Up Project of the College of Education at OSU has been busy collecting and analyzing information from 943 four-year graduates -- the entire graduating class of the 1978/79 academic year. This report presents the findings of the data analysis. This report has been set up to facilitate its reading for those persons who may be interested in only the most interesting findings. For this reason, the repori only summarizes the results. Specific itens of information have been forwarded to heads or proyram areas and all findings are available in the Follow-up Cffice.

This report presents results of the follow-up of 943 1978-79 graduates of the 30 progian areas in the College of Education. Since three kinds of infomation were gathered, the findings are split in three ways. Each set of infomation reflects the findings of one of the instruments used: demographic/professional perspectives, the teacher concems instrument, or the site visit packet of instruments. Iikewise, just as the instrumentation has guiced the presentation of the data, information on the graduates is presented for all graduates as a group, and then for the graduates of Math/Science Education and Health Education. For those persons interested in either the general or same specific aspect, the table of contents should provide a handy guide to the use of this report.

## History of the CSU Follow-Up Project

The Follow-Up Project was begun in 1977 in response to both State of Ohio and NCATE requirements for the "continuous study, development, and improvement of teacher education shall be evidenced and supported by
a well-defined plan of evaluation which shall provide for the follow-up of graduates." (State of Ohio Standauds for Colleges or Universities l'eparing Teachers, 1975, p. 9).

In 1978, the first report was completed, which examined the graduates of the $1977 / 78$ graduating class. At the time of that report, a ger- ${ }^{-}$ eral strategy for the OSU follow-up Project was to study one-year out, then three-year out, then five-year out graduates in successive years, in a continuing cycle. In 1979, this strategy was continued, the result being a report entitled "Findings fram a Randam Sample of 120 1975/76 Graduates of the OSU College of Education." In addition to this report of the three-year out graduates in 1979, two other pilot projects were undertaken to determine how feasible it would be to use more qualitative techniques, or other approaches to follow-up instead of the more traditional mail questionnaire. Another report was completed as a result of this exploratory attempt, which documented the day-by-day experience of two undergraduates who were in the student teaching phase of their training. Finally, in 1979, a third project, which also looked at the student teaching phenomenon, was conducted. This study's findings are reported in the Joumal of Teacher Education, to be published i.: June, 1980. (The report is also available from the author, through the Follow-Up Project Office.)

From the explorations and studies done in 1979, the present project was designed. Several decisions about scope were made. It was decided not to follow-up teachers who were five years out, since the findings from the three-year stuxy showed clearly that after three years, teachers remember little about specific aspects of their training, and attribute their surcess or failure to their work enviromment. It was also decided that because of the high $\cos ^{\prime}$ it was not feasible to add a large ethnographic
(anthropologically descriptive) component to the follow up project, at least until such time as a basic system which met State of Ohio and NCATE standards was in place.

The 1980 project focused, then, on settling on one basic system for the systematic gathering of data on graduates, and then tuning the system so that if cost-effectiveness could be maintained, other smaller projects could in the future be added form year to year. This year, 1980, the project has concentrated on gathering high-quality data about 1978/79 graduates generally, and about Health Education and Math/Science graduates in somewhat more depth.

In following years, a major objective of the followup project is to begin to a) make strides toward adding a system of teacher competence assessment to the project, as mandated by NCATE standards, and b) better documenting the undergraduates experience, especially the undergraduate field experiences.

## Methodology

How This Study Was Done
For 1979/80, the Follow-Up Project gathered information from four groups. The first, group was composed of the entire graduating class of the College of Education (four-year baccalaureate degrees) for fall, winter, spring, and summer 1978/79 groups. A total of 943 graduates comprised this group. The second group consisted of 143 Math/Science majors who graduated from 1975-1979. The third group consisted of 15 randomly selected teachers in the Columbus area from the 1979/80 graduating class. These 15 teachers were visited at their schools. The fourth group consisted of 135 Health Education graduates from the graduating classes of

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1970-1979.
For the first group, Demographic/Professional Perspectives were mailed to each graduate. The questionnaire is reproduced following this page.

The Demographic/Professional Persepctives questionnaire asked mach more than simple demographic kinds of questions. One of the most important characteristics of the questionnaire is that it permuted information to be gathered for both teacher and non-teaching graduates. It also permits results to be analyzed by separate program areas.

These Demographic/Professional Perspective questionnaires were sent in two rounds. The first round of questionnaires was mailed in late December, 1979; the second round was mailed to those persons who did not respond to the first mailing and was sent three weeks after the first round of mailings.

From the 943 graduates, a total of 493 completed questionnaires were received. Results will be completely reported in the next chapter, but it will suffice to report here that of we 493 reuters, 298 (60.48) were from graduates who were currently teaching while the remaining $39.6 \%$ of the returns were from non-teaching graduates. Th insure that the person responses who did return the demographic questionnaire were representative of all 943 graduates, a procedure was carried out winch supports the hypothesis that the 493 questionnaires reflect the characteristics of the population.

First, twenty graduates from the 1978-1979 College of Education population were randanly selected. Each was then contacted personally and requested via a telephone conversation to respond to the Demographic/ Professional questionnaire. Then, their responses were compared to

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those of the 493 responders to detemine if any response biases existed among the responding group. As can be seen in Appendix A no significant differences in responses were found between the two groups.

A second instrument, called the Concerns/Problems Instrument, was mailed in March of 1980 to all those graduates who were teaching only. This instrument has been reproduced on the next fer pages.

As could be expected, not all the teaching graduates returned the questionnaire. Of the 298 that were mailet, 112 were received, for a response rate of $37.6 \%$.

## Directions:

This checklist is designed to explore what you, as a teacher, are concemed with at this ${ }_{2}$ int in your career. It is also designed to find out whether you have had any preparation in resolving concems, and what the source of that preparation was.

Each statement has two parts. The " A " (top) part lists a concern. The "B" (bottan) part lists a competency associated with that concern. For each set of statements, respond as follows:

Concern - For each of the " $A$ " statements, ask yourself, WIEN I THINK ABOUT NY TEACHING, HOW MUCH AM concerined abour this?

If you are not concerned about that now, circle "1."
If you are a little concemed, circle "2."
If you are moderately concerned, circle "3."
If you are very concerned, circle "4."
And if you are extremely concerned, circıe "5."
Preparation - For each of the "B" statements, circle the response under "Preparation" that corresponds to your degree of preparation for this competency.

Source - Again, for each of the "B" statenents, if you feel you were samehow or somewhere prepared to deal with the concem, respond by circling the response under "Source" that corresponds to where you learned the competency.

## CONCERN

## not concerned

```
a little concerned
    moderately concerned
            very concemed
                extremely concemed
            I
            5
```

coursework at OSU
teaching itself
inservice training independent study don't know
 adequately prepared some preparation but not enough unprepared
$\begin{array}{lllll}1 & 2 & 3 & 4 & 5\end{array}$
$1 \begin{array}{lllll}1 & 2 & 4 & 5\end{array}$
$1 \begin{array}{lllll}1 & 2 & 3 & 4 & 5\end{array}$
$\begin{array}{lllll}1 & 2 & 3 & 4 & 5\end{array}$

122345
$\begin{array}{lllll}1 & 2 & 3 & 4 & 5\end{array}$
$1 \begin{array}{lllll}1 & 2 & 3 & 4 & 5\end{array}$
$\begin{array}{lllll}1 & 2 & 3 & 4 & 5\end{array}$
16

1. A. Lack of respect of some of my students.
B. My students respect me because of something I do. $1 \begin{array}{llllllllllll}1 & 2 & 3 & 4 & 5 & : & 1 & 2 & 3 & 4 & 5\end{array}$
2. A. Standards and regulations set for teachers.
B. I can deal with all the rules and still be an effective teacher.

123345
i
$\begin{array}{lllll}1 & 2 & 3 & 4 & 5\end{array}$
3. A. Selecting and teaching content well in my class.
B. I can select appropriate materials in my class.
4. A. The mandated curriculum is not appropriate for all students.
B. I am able to modify the curriculum for different kinds of students.
5. A. Whether students are learning what they should.
B. I am able to know when my students are teaming.
6. A. Whether my students really like me or not.
B. $N / A$
7. 'A. Increasing students' feelings of accomplishment.
B. I have leamed to increase my students' feelings of accomplishment.

CONCERN
not concerned
a little concerned
moderately concenned very concemed extremely concemed
1
$\begin{array}{lllll}1 & 2 & 3 & 4 & 5\end{array}$

## PREPARATION

extensively prepared more than adequate adequately prepared some preparation but not enough unprepared don't know 1


1. 2345
$\begin{array}{lllll}1 & 2 & 3 & 4 & 5\end{array}$
$\begin{array}{llll}1 & 2 & 3 & 4\end{array}$. 5
$\begin{array}{lllll}1 & 2 & 3 & 4 & 5\end{array}$
$\begin{array}{lllll}1 & 2 & 3 & 4 & 5\end{array}$
$\begin{array}{lllll}1 & 2 & 3 & 4 & 5\end{array}$
$\begin{array}{llllll}1 & 2 & 3 & 4 & 5\end{array}$.
$\begin{array}{lllll}1 & 2 & 3 & 4 & 5\end{array}$
2. A. The nature and quality of my instructional materials.
B. I can recognize good materials when I see them. $\begin{array}{llllllllllllll}1 & 2 & 3 & 4 & 5 & & 1 & 2 & 3 & 4 & 5\end{array}$
3. A. Where I stand as a teacher.
B. I have a personal philosophy that guides me when teaching.
$\begin{array}{llllllllll}1 & 2 & 3 & 4 & 5 & : 1 & 2 & 3 & 4 & 5\end{array}$
4. A. Motivating my students to study.
B. I can apply motivating techniques when I teach.
$\begin{array}{llll}1 & 2 & 3 & 4\end{array}$
5
5. A. Working productively with other teachers.
B. I can work productively with other teachers.
$\begin{array}{lllll}1 & 2 & 3 & 4 & 5\end{array}$

6. A. Lack of instructional materials in my class or school.
B. $N / A$
7. A. Rapid rate of curriculum and instructional change
in my school.
B. $N / A$
8. A. 'Feeling under pressure too much of the time.
B. I generally can keep up with what I have to do.
9. A. The routine and inflexibility of the situation.
B. I have adjusted fairly well to this situation.
10. A. The routine and inflexibility of the situation.
B. . I have adjusted fairly well to this situation.

CONCERN
not concerned
a little concerned moderately concerned very concerned extremely concerned


12345
16. A. Becoming too personally involved with students.
B. I have learned to keep the right amount of distance between me and my students (whatever that is for you).
$\begin{array}{llllllllll}1 & 2 & 3 & 4 & 5 & 1 & 2 & 3 & 4 & 5\end{array}$
12345
17. A. Maintaining the appropriate degree of class control.
B. I generally can control my class.
$\begin{array}{llllllllll}1 & 2 & 3 & 4 & 5 & 1 & 2 & 3 & 4 & 5\end{array}$
12345
18. A. Acceptance as a friend by my students.
B. $N / \Lambda$

12345
19. A. Understanding trie principal's policies.
B. $\mathrm{N} / \mathrm{n}$

12345
20. A. The wide range of student achievement in my class.
B. I can modify the curriculum to fit individual.'s needs.

1
$\begin{array}{lllll}1 & 2 & 3 & 4 & 5\end{array}$

- B

21. A. Doing well when a supervisor is present.
B. I have enough confidence not to get too nervous.
22. A. Meeting the needs of different kinds of students In my class.
B. I know how to provide dijfferent kinds of instruction for different students.
23. A. Being fair and impartial toward students.
B. I still find being fair a big problem in ny class. $1 . \begin{array}{lllllllllll} & 2 & 3 & 4 & 5 & 1 & 2 & 3 & 4 & 5\end{array}$
not concerned
a little concerned moderately concemed very concerned pxtremely concerned
$\begin{array}{llll}1 & 2 & 3 & 5\end{array}$
24. A. Diagnosing student learning problens.
B. I know how to diagnose student leaming problens. $1 \begin{array}{lllll}1 & 2 & 3 & 4 & 5\end{array}$
25. A. Getting a favorable evaluation of my teaching. B. $N / \Lambda$

12345

12345

12345

12345

123 ; 5

12345
26. A. Being asked personal questions by my students.
B. I can handle difficult questions from students about my personal life.

12345
27. A. Too many noninstructional muties at my school. B. $N / A$
28. A. Insuring that my sturients grasp subjcst matter funkamentals.
B. I can "deliver" my subject matter to facilitate $\begin{array}{lllllllllll}1 & 2 & 3 & 4 & 5 & \vdots & 1 & 2 & 3 & 4 & 5\end{array}$ leaxning.
29. A. Working with too many students each day.
B. I can control my time so I don't get overwhelmed with too many students at once.

1234 5
30. A. Challenging unmotivated students I have contact with.
B. I have learned ways to challenge unnotivated students.
31. A. The values and attitudes of the current yeneration.
B. I am prepared to deal with differing attitides and values fram my own.

Cancern
not concerned
a little concerned moderately concerned very concerned extremely concerred
teaching itself inservice training independent study don't know
PREPARATION extensively prepared more than adequate adequately prepared same preparation but not enough unprepared
$\begin{array}{lllll}1 & 2 & 3 & 4 & 5\end{array}$

$\begin{array}{lllll}1 & 2 & 3 & 4 & 5\end{array}$
$\begin{array}{lllll}1 & 2 & 3 & 4 & 5\end{array}$
$\begin{array}{lllll}1 & 2 & 3 & 4 & 5\end{array}$
$\begin{array}{lllll}1 & 2 & 3 & 4 & 5\end{array}$
$\begin{array}{lllll}1 & 2 & 3 & 4 & 5\end{array}$
$\begin{array}{lllll}1 & 2 & 3 & 4 & 5\end{array}$
$\begin{array}{lllll}1 & 2 & 3 & 4 & 5\end{array}$
32. A. Adapting myself to the necds of different students.
B. I can plan and carry out instruction that meets the needs of different kinds of students.
33. A. Whether my students can apply what they learn.
B. I put applicatior kinds of learning into lessons I teach.
$\begin{array}{lllll}1 & 2 & 3 & 4 & 5\end{array}$
$\begin{array}{llllllllll}1 & 2 & 3 & 4 & 5 & { }^{\prime} & 1 & 2 & .3 & 4\end{array}$
35. A. Students who disrupt my classes.
B. I can deal with students who disrupt classes.
36. A. Instilling worthwile concepts and values in my students.
B. I know ways to teach, attitudes and values to ry stuidents.
37. A. INow my students feel about me.
B. $N / A$
38. A. Student health and nutrition problems that affect leaming.
B. I can recognize and deal with health problens of my students.
39. A. The psychological climate of the school


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not concerned
    a little concerned
        moderately concerned
            very concermed
                extremely concerned
                    1
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    nservice traing itself
                                    inservice training
    independent study
don't know
PREDARATICN
more than adequate
adequately prepared
scme preparation
but not enough
unprepared

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| 1 | 2 | 3 | 4 | 5 |

                                    coursework at OS:
                                    teaching itself
    $\begin{array}{lllll}\therefore i & \vdots & \vdots & & \vdots \\ i & 2 & 3 & 5\end{array}$
40. A. Clarifying the limits of my authority and responsibility.
B. I can communicate my wishes to my students on managerial matters.

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12343

| $\ddot{i}$ | 2 | $\vdots$ |  | $\vdots$ |
| :--- | :--- | :--- | :--- | :--- |

41. A. Assessing and reporting my students progress.
B. I know how to keep and record grades efficiently and fairly.

12345
12345
12345
$\begin{array}{lllll}1 & 2 & 3 & 4 & 5\end{array}$
43. A. Lack of academic freedar.
B. I can teach whether or not academic freedam is an issue.

12345
12345
12345
44. A. Teaching required content to students of varied background.
B. I can deal with students from very different background in terms of instruction.
$\begin{array}{lllll}1 & 2 & 3 & 4 & 5\end{array}$

1. 2345

12345
45. A. Student use of trugs.
B. I can deal with students in my classrocm who

12345
12345
$1 \begin{array}{lllll}1 & 2 & 3 & 5\end{array}$
26
46. A. Feeling more adequate as a teacher.
B. I can handle the ups and downs of teaching emotionally.

12345
12345

## OXCEEN

    not concerned
        a little concerned
        PREPARATION
        extensively prepared
        more than adequate
    adequately prepared
some preparation
but not enough
unprepared
$\begin{array}{lllll}1 & 2 & 3 & 4 & 5\end{array}$
independent study
moderately concerned
very concerned
extremely concerned
$1 \begin{array}{llll}1 & 2 & 3 & 4\end{array}$

12345
$\begin{array}{lllll}1 & 2 & 3 & 4 & 5\end{array}$
$1 \begin{array}{lllll}1 & 2 & 3 & 4 & 5\end{array}$
47. A. Guiding my students toward intellectual and emotional growth.
B. I have scme long-term ideas of how I want my students to grow intellectaally.

12345
12345
48. A. Being accepted and respected by professional persons.
B. I have leamed to gain the respect of my peers. $\begin{array}{llllllllllllllll}1 & 2 & 3 & 4 & 5 & & 1 & 2 & 3 & 4 & 5\end{array}$
49. A. Adequately presenting all of the required material to my class.
B. I can keep to the teaching schedule in spite of interruptions.
50. A. Slow progress of certain students in my class.
B. I can teach students who leam at different speeds.

12345
$\begin{array}{lllll}1 & 2 & 3 & 4 & 5\end{array}$
51. A. My ability to present ideas to my class.
B. I think I can cormanicate my ideas to the class. $\begin{array}{lllllllllllllllllllll}1 & 2 & 3 & 4 & 5 & & 1 & 2 & 3 & 4 & 5\end{array}$
52. A. Helping my students to value learning.
B. I can get my student to see the value of leaming. $1 \begin{array}{lllll}1 & 2 & 3 & 4 & 5\end{array}$

12345
53. A. Whether each student is getting what he or she needs.
B. I am able to diaqnose the instructional needs of my students.
not concerned
a little concerned moderately concerned
very cancerned
extremely concerned
$-1$

$\begin{array}{lllll}1 & 2 & 3 & 4 & 5\end{array}$
$\begin{array}{lllll}1 & 2 & 3 & 4 & 5\end{array}$
$1 \begin{array}{llll}1 & 2 & 3 & 5\end{array}$
54. A. Increasing my proficiency in content.
B. I know enough about the "what" of teaching to feel competent.
55. A. Recognizing the social and emotional needs of students.
B. I can recogmize the social/emotional needs of my students.
56. A. The wide diversity of student, ethric and socio- : econamic backgrounds.
B. I am flexible enough to deal with different kinds of students.
$\begin{array}{lllll}1 & 2 & 3 & 4 & 5\end{array}$
$\begin{array}{llll}1 & 2 & 3 & 5\end{array}$
-
$\begin{array}{lllll}1 & 2 & 3 & 4 & 5\end{array}$
$\begin{array}{lllll}1 & 2 & 3 & 4 & 5\end{array}$

The second group, the 1975-1979 Math/Science graduates, received the same Demographic/Profesional Perspectives and Concems/Problens instruments. Their retum rates for these two instrments were $57.9 \%$ and $26.6 \%$, respectively.

For the third group, those graduates who were first-year teachers in the Columbus area, a third procedure was followed. The Follow-Up staff, between February and April of 1980, visited each of these teachers at their school. While there, the observer recorded, using the Goodlad (1970) System, a segment of the teachers' in-class instruction, i sonducted an interview. The Goodlad (1970) system is an open-ended "snapshot-like" system. The interview form is reproduced on the next few pages.

For the fourth group (135 1970-79 Health Education graduates) another procedure was followed. Briefly it went like this:

A procedur 1 model was developed and implemented to follow-up the 1970-1979 Health Education Bachelor's Degree level graduates. This model incorporated the desired outcomes for a school health educator and was designed to obtain graduates' feedback concerning their professional preparation and what they viewed as important qualities of the school health educator.

The stuxy was divided into five procedural phases. These phases were:
Phase I: Identification of the desired outcomes of the undergraduate school health education program at The onio State University

Phase II: Development of a Survey Instrment to obtain feedback from the 1970-1979 bachelor's degree level health education graduates.

Phase III: Collection of the Data
Phase IV: Presentation, Analysis and Interpretation of the Data

1. Trink back to when you first decided to choose teaching as a profession.
a. Why did you decide to beoome a teacher?
b. What program areas did you consider?
c. Why did you choose that program area?
d. How did you get this job?

INIERVIENER'S COVMENIS:

The next few questions will be about your perception of the teacher program that you went through.
2. Overall, based on your teaching experience, how satisfied are you now with the program you had then?

INTCRVIEMER'S COMHENIS:
3. a. On a scale from 1 to 10 , to what extent did the general courses in your prograni help you in your day-to-day teacing? (scales: 1 - not at all; 10 - to a great extent).
b. On a scale from 1 to 10 to what extent did the courses specific to your major help you in your day-to-day teaching?

INIERVIENTER'S COMMENIS:
4. a. On a scale from 1 to 10 , to what extent did the general prilosophy and theory courses in your program help you in your teacining? (1 - not at al 10 - to a great extent).
b. On a scale from 1 to 10 , to what extent did your specific program's philosophy and theory courses help you in your teaching?

INTERVIENER'S COMYINIS:
5. Looking back, would you want the program to be more practical or more theoretical?

INIERVIENER'S CORYZNRS:
6. a. Can you think of areas that were neglected or overemphasized in your program?
b. How would you change the program to be more helpful to teachers? INIEERVIENER'S OMMENTS:
7. On a scale from 1 to 10 , rate the field experience you had. ( 1 - terrible; 10 - outstanding.

INTERVIENER'S COMMENIS:
8. Was there anything unusual about your student teaching and/or field experiences?

INIERVIEWER'S COMENTS:
9. No preparation for any job is ever perfect. Was there any part of teaching that caught you completely by surprise after you began your ermloyment?

INIERNIENER'S COMMENIS:
10. Would you finish each sentence I am about to read?
a) Since last year I. . . .
b) My biggest concern when I teach is. . . .
c) Teaching is. . . .
d) My fellow teachers. . . .
e) The university should help teachers in the field by. . . .
f) The most difficult student to teach is one who. . . .
11. What kind of teacher did you want to be when you started teaching?

Have you changed your mind since then (or recently)?
DO NOT HURRY. DO NOT CIAREFY. SAY ONLY, "MTIS IS A DIFFICULT OUESTTON. TAKE AS MLCH TINE AS "CO NED YO ANEWER".

INLTKIERER'S COMENHS:
12. a. In general, how satisfied are you with teaching now?
b. HOW satisfied are you with your own teaching? INIERNLEAER'S COMMENTS:
13. How has teaching affected your family and/or personal life? INLLRVIENER'S COMMENIS:
14. Who has been the most helpful person to you this year? In what ways? .INIERVIENER'S COMIENIS:
15. How many years do you plan to teach? What then?

IMIERVIENER'S COMMENIS:
16. a. Describe the characteristics of the worst miversity professor in preparing you to teach? (withcut mentioning names).
b. Describe the characteristics of the best university professor in preparing you to teach?

INTERVIEWER'S COMMENIS:

This conclutes our interview. PARAPTRRASE THIS SENTEMCE: "AFE THERE ANY OTHER COMENTS YOU WOOID CARE TO MAKE?"
(continued from page 17)
Phase V: Appraisal of the Procedural Model Process: Inplications for its adaptation of other teacher education program areas.

The survey instrument used in this study was composed of the knowledge, skill, and attitude/value items which were validated by the tenured Health Education faculty at OSU. Since there was a large number of items, these items were divided equally to develop two similar forms of the survey instrment. Each item was resporded to by the 1970-1979 graduates according to two scales. One scale requested the graduates to rate the "Importance" of each knowledge, skill, or attitude/value statement on a "l" (totally unimportant) to "6" (most important) scale. The other scale requested the graduates to rate the "Adequacy of Your Preparation" to achieve each stated knowledge, skill, or attitude/value on a "l" (poor preparation) to "6" (excellent preparation) - sale. An additional point of "0" (no preparation) was placed on this scale to stress the differentiation between the quality of one's professional preparation and the possible lack of a specific facet of preparation.

One form of the survey instrument was mailed to one stratified random sauple of 66 graduates while the other form was mailed to a similar sample of 66 graduates. Three of the graduates could not be contacted. Eightynine usable surver instruments (67.48) were returned and used in the analysis of the data.

Analysis of the study data was conducted using descriptive (percentages, means, ranges, and standard deviations), correlational (Pearson productmoment correlation coefficient), and inferential (analysis of variance) statistics.

A graphic representation of how the overall 1979/80 Follow-up study was carried out presented on page 23 (figure 1).

## SUMARIY OF THE STLDY'S RESULTS

This portion of the report will summarize the data collected via the demographic and teacher concem questionnaires. The data for the College of Education graduates ( $N=493$ ) will be summarized first. A similar summary of the math/science graduates for the academic years, 1975-1979 ( $\mathrm{N}=143$ ) will folios this initial summary. Third, a summary of the results of Health Education study ( $N=89$ ) will be presented. Finally, a summary of the sitevisit data will be presented.

## Summary of Demographic/Professional Perspectives

Questionnaire Results

## The Typical Graduate: A Composite Portrait

From all the confusing statistics, this composite of the typical 1978/79 graduate emerges:

- white female, age 20-25
- no previous teaching experience
- completed entire undergraduate degree at OSU
- rated the Placement Service as good .. .
- plans to get an MA in education in the next few years
- obtained her position through a personal contact
- taught in a suburban setting
- has occasional discipline problems
- teaches classes which ranged in size from 21 to 30 pupils
- teaches in schools with enrollments of under 1000
- has effective assistance available when discipline problems occur


SUMPARY OF PROCEDURES, 1979/80 PROJECT

Figure 1

- is not required to lead extracurricular activities
- teaches in a public school, in a self-contained classroom in a middle-class school with few minority students
- is "very satisfied" with teaching in general
- is "very satisfied" or "somewhat satisfied" with their present position
- teaches in schools where students had access to full-time or part-time guidance personnel
- feels her OSU education was generally adequate
- uses student test soores as a means for evaluating her teaching
- is helped the most in promoting her professional development by teaching colleagues
- is supported by her teaching colleagues
- thought that "warmth and closeness" was more important than "getting work done"
- was attracted to teaching because of wanting to work with children

These specific data will amplify the above caroosite.

## Current Employment

Approximately one-half ( $52.7 \%$ ) of the 488 graduates who responded to the first item on the demographic/professional perspectives reported that they were employed as classroam teachers. An additional 40 graduates (8.28) were employed as substitute teachers. Slightly over one-fourth (26.6\%) of the respondents were employed outside of education while just 28 (5.7\%) of the graduates were currently unemployed.

## Table 1

| Current Employment | Freauency | Percentage |
| :--- | :---: | :---: |
| Classrocm Teaching | 257 | 52.7 |
| Other School Employment | 10 | 2.0 |
| Post Secondary Schools | 4 | .8 |
| Subbing | 40 | 8.2 |
| Unemployed | 28 | 5.7 |
| Coaching | 3 | .6 |
| Gracuate Student | 11 | 2.3 |
| Military | 5 | 1.6 |
| Other | 130 | 26.6 |

## Age, Sex, and Race

As could be expected, the overwhelming majority ( 81.98 ) of the respondents reported that they were between the ages of 20-25. Seventyeight of the remaining 89 ( 15.98 ) of the graduates statea ruat they were between the ages of 26-35.

Approximately seven out of every ten respondents (70.2\%) were female while all but 13 of the respondents were white (97.38).

## Table 2

| Age | Frequency | . | Percentage |
| :--- | :---: | :--- | :---: |
| $20-25$ | 402 | 81.9 |  |
| $26-30$ | 52 | 10.6 |  |
| $30-35$ | 26 | 5.3 |  |
| $36-40$ | 5 | 1.0 |  |
| Over 40 | 6 |  | 1.2 |
| Total | 491 |  | 100.0 |

Table 3

| Sex | Frequency | Fercentage |
| :--- | :---: | :---: |
| Male | 145 | 29.8 |
| Female | 341 | 70.2 |
| Total | 486 | 100.0 |

## Table 4

| Race | Frequency | Percentage |
| :--- | :---: | :---: |
| Black | 10 | 2.1 |
| Hispanic | 1 | .2 |
| Asian-American | 1 | .2 |
| Native Arerican | 1 | .2 |
| White | 474 | 97.3 |
| Total | 487 | 100.0 |

## Years Teaching Experience

Over half of the graduates (54.6\%) stated that they had no fulltime teaching experience. All but 16 of the 221 remaining respondents (42.18) reported that they had one year of full-time teaching experiences. It is assumed that the 16 respondents who reported two or more years of teaching experience had obtained a teaching degree prior to the one eamed during the 1978-1979 acadernic year.

Table 5

| Years Teaching | Freguency | Percentage |
| :--- | :---: | :---: |
| None | 266 | 54.6 |
| 1 | 205 | 42.1 |
| 2 | 7 | 1.4 |
| 3 | 3 | .6 |
| 4 or more | 6 | 1.2 |
| Total | 487 | 100.0 |

## Students Who Transferred to Ohio State

Almost three-fourths (74.98) of the respondents completed their entire unaryraduate career at The Ohio State University. Of the $109 \mathrm{grad}-$ wates who did transfer to ohio, 69 (63.3\%) did so during their sophanore year.

Table 6

| Transfer Students | Freguancy | Percentage |
| :--- | :---: | :---: |
| no transfer | 368 | $\mathbf{7 4 . 9}$ |
| Yes Sophomore | 69 | $\mathbf{1 4 . 1}$ |
| Yes Junior | 38 | $\mathbf{7 . 7}$ |

Table 6 (cont'd)

| Transfer Students | Frequency | Percentage |
| :--- | :---: | :---: |
| Yes Senior | 2 | .4 |
| Other | 14 | 2.9 |
| Total | 491 | . |

## Program Area

Approximately one-third (32.7\%) of the responding graduates majored in Elementary Education. Social Studies majors accounted for $8.8 \%$ of the respondents while Physical Education, Music Education, and English Education majors accounted for $6.9 \%, 6.7 \%$ and $5.7 \%$, respectively. The remaining $39.2 \%$ of the respondents were distributed among the other program areas.

Table 7

| Program Area | Frequency | Percentage |
| :--- | :---: | :---: |
| Art Education | 20 | 4.1 |
| Biological Science | 12 | 2.4 |
| Broadcasting Conmunications | 1 | .2 |
| Business Education | 8 | 1.6 |
| Dental Hygiene | 17 | 3.4 |
| Distributive Education | 4 | .8 |
| Earth Science | 2 | .4 |
| Elementary Education | 160 | 32.7 |
| Elementary Special Education | 10 | 2.0 |
| English Education | 28 | 5.7 |
| English Conmunication Education | 4 | .8 |

Table 7 (cont'd)

| Program Area | Freguency | Percentage |
| :--- | :---: | :---: |
| Exception Chiloren Education | 12 | 2.4 |
| Foreign Language Education | 9 | 1.8 |
| Health Education | 20 | 4.1 |
| Industrial Technology Education | 21 | 4.3 |
| Journalism Education | 1 | .2 |
| Math Education | 15 | 3.0 |
| Music Education | 33 | 6.7 |
| Physical Education | 34 | 6.9 |
| Physical Science | 1 | .2 |
| Recreation Education | 25 | 5.1 |
| Science Education | 4 | .8 |
| Social Studies Education | 43 | 8.8 |
| Speech \& Theatre Education | 2 | .4 |
| Trade Industrial Education | 2 | 49 |
| Total |  | .4 |

## Educationsl Placem services

Approximately one-half ( $4.3 \%$ ) of the graduates who responded to the demographic/Professional perspectives reported that "assembling credentials"
was the "most helpful service" provided by the EAucational Personnel Placement Office. Forty-seven (9.98) respondents stated that "helping me prepare my resume" was the most helpful service provided. Over one-fourth (29.9\%) of the gracuates responded, "none of the above" to the question concerning the "most helpful service" provided by the Personnel Placement Office.

Table 8

| Placement Service | Frequency | Percentage |
| :--- | :---: | :---: |
| Assemble Credentials | 234 | 49.3 |
| Provide Information | 33 | 6.9 |
| Recomend for Position | 12 | 2.5 |
| Resume Help | 47 | 9.4 |
| None | 142 | 29.9 |
| Other | 7 | 1.5 |
| Total | 475 | 100.0 |

One hundred and eighty-eight ( $38,9 \%$ ) of the respondents rated the services offered by Educational Personnel Placement Office as "good" while $17.8 \%$ of the respondents rated the services as "fair" and 12.68 rated them as "excellent". Of the remaining $30.7 \%$ of the respondents, 22.68 reported that they "did not use the services" offered and 8.18 rated the services as "unsatisfactory".

## Table 9

| Ea placement Rated | Frequency | Percentage |
| :--- | :---: | :---: |
| Excellent | 61 | 12.6 |
| Gord | 188 | 38.9 |
| Fair | 86 | 17.8 |
| Unsatisfactory | 39 | 8.1 |
| Did not use | 109 | 22.6 |
| Total | 483 | 100.0 |

## Future Professional Study

Over one-half of the respondents (57.38) were considering pursuing a Masters Degree in Education. Seventy-two respondents (15.28) expressed no interest in furthering their education.

Over one-fifth of the respondents (22.58) considered employment in fields outside of education. Areas outside of education mentioned frequently were: biology, natural resources, nutrition, accounting, law, and medically related fields.

## Table 10

| Future Professional Study | Frequency | Percentage |
| :--- | :---: | :---: |
| Masters of Education | 272 | 57.3 |
| Ph.D. of Education | 5 | 1.1 |
| Specialist Degree | 19 | 4.0 |
| Engineering | 61 | 12.8 |
| No Study | 72 | 15.2 |
| Biology, Natural Res., Nutrition | 2 | .4 |
| Accounting, Business, Law | 21 | 4.4 |
| Other | 17 | 3.6 |
| Medical Field | 6 | 1.3 |
| Total | 475 | 100.0 |

## Employment Related to Degree, But Not Teaching

Same of the College of Education graduates gain employment in nonteaching positions winch are nevertheless directly related to the undergraduate degree. Dental Hygiene and Recreation Education are examples of program areas which prepared graduates who enter non-teaching positions. Sixty (12.38) of the 486 respondents were employed in such positions.

Table 11

| Enployment Related to Degree | Frequency | Percentage |
| :--- | :---: | :---: |
| Related but Not Teaching | 60 | 12.3 |
| Does not apply | 426 | 87.7 |
| Total | 486 |  |

## Seeking a Teaching Position

C.e hundred and ninety-nine of the 493 graauates ( 40.08 ) were not currently employed as teachers. Approximately $40 \%$ of these non-teaching graduates reported that they had sought a teaching position. The remaining $58.8 \%$ stated that they had never sought a teaching position.

## Table 12

| Sought Teaching Position | Frequency | Percentage |
| :--- | :---: | :---: |
| Yes | 82. | 41.2 |
| No | 117 | 58.8 |
| Total | 493 | 100.0 |

## Reasons For Not Teaching

One hundred and seventy-one non-teaching graduates responded to the questionnaire concerning why they were not teaching. Slightly over onethird of these graduates reported that the unavailability of jobs was the reason for their not entering the teaching profession. A similar percentage of these respondents list a wide variety of reasons for their not teaching. These reasons were categorized under "other". Approximately one-fifth (21.6\%) of the non-teaching graduates rported that they had chosen to change
professions and thus were not involved in teaching at the present tine. Finally, 15 respondents ( $8.8 \%$ ) stated that the low salaries offered to teachers was the reason for their not becoming teachers.

Table 13

| Reasons For Not Teaching | Frequency | Percentage |
| :--- | :---: | :---: |
| Changed Professions | 37 | 21.6 |
| No Jobs Available | 61 | 35.7 |
| Low Salary | 15 | 8.8 |
| Other | 58 | 33.9 |
| Total | 171 | 100.0 |

Regret For Not Teaching
Over two-thi, is ( 68.48 ) of the non-teaching or fuates stated that they did not regret the fact that they were not teaching.

Table 14

| Regret For Not Peaching | Frequency | Percentage |
| :--- | :---: | :---: |
| Yes | 59 | 31.6 |
| No | 228 | 68.4. |
| Total | 187 | 100.0 |

## Current Employment of Nen-Teaching Graduates

Sixty-four of the 133 non-teaching graduates (48.1\%) who responded to the position conceming their present employment stated that they were emrployed in business, sales, or legal related fields. Nineteen of the nonteaching graduates (14.3\%) were employed in acnini.••?ative positions.

Seventeen of these graduates (12.8\%) were employed in fields related to medicine while 13 respondents (9.8\%) went on to further professional study. The remaining non-teaching graduates were employed as substitute teachers (8.38), members of the military (3.8\%) and housewives (3.08)

## Table 15

| Current Employment-Nonteachers Frequency | Percentage |  |
| :--- | :---: | :---: |
| Graduate Study | 13 | 9.8 |
| Substitute teaching | 11 | 8.3 |
| Housewife | 4 | 3.0 |
| Adninistration | 19 | 14.3 |
| Business, Sales, Law | 64 | 48.1 |
| Military | 5 | 3.8 |
| Medically Related Fields | 17 | 12.8 |
| Total | 133 | 100.0 |

## Happy in Current Position

Over three-fourths (77.9\%) of the 172 non-teaching graduates reported that they were happy in their current position.

Table 16

| Hapy in position | Freguency | Percentage |
| :--- | :---: | :---: |
| Yes | 134 | 77.9 |
| No | 38 | 22.1 |
| Total | 172 | 100.0 |

## Usefulness of Education Degree

One-hundred and eighty-four graduates responded to the questionnaire item which asked them to reflect upon the usefuiness of their educational degrees. Graduates could respond to this iten by circling one or more items. The total of 212 responses were recorded. One hundred and six graduates (57.6\%) reported that what they learned helped them in their enployment. Slightly over one-fourth (26.6\%) of the respondents stated that the educetion degree they obtained was not useful and that they could have majored in anything and still secured their present job. Approximately one-iiftil (29.58) of the graduates responded, "other" while $11.4 \%$ of the graduates reported thait they needed their degrees to obtain their current jobs but that they did not apply what they learned to their jobs.

Table 17

| Usefulness of Degree | Froquency | Percentage |
| :--- | :---: | :---: |
| Job applies to degree | 106 | 57.6 |
| Job does not apply to degree | 21 | 11.4 |
| Could have majored in any- <br> thing for present job | 49 | 26.6 |
| Other | 36 | 19.6 |
| Total | 212 | 100.0 |

## Current Educational Employment

Two hundred and forty-six of the 292 graduates ( $84,2 \%$ ) responded that they were employed in their major field while 6 (2.18) stated they were employed in their minor field. Approximately one-tenth (9.98' f the graduates were employed in an educational field other than thos they
were prepared for at The Ohio State Unjuarsity. The remaining li respondents (3.88) stated that this questionnairs item was "not applicable".

## Tabla 18

| Current Educational Emloyment Frequency | Percentage |  |
| :--- | :---: | :---: |
| Etployed in Major Field | 246 | 84.2 |
| Erployed in Minor Field | 6 | 2.1 |
| Erployed in Other Field | 29 | 9.9 |
| Does Not Apply | 11 | 3.8 |
| Total | 292. | 100.0. |

## Aid in Securing Employment

One hundred and ten of the 269 graduates who responded to the questionnaire item concerning aid in securing enployment stated that assuming coaching duties was the most helpful means in securing their present jobs. Slightly over one-fifth of the respondents (21.28) reported that the Education Personnel Placement Office was the most helpful means in securing their employment. "Preparation in more than one teaching area" was listeid by 41 respondents as the most helpful means in obtaining their current positions while just over one-tenth (11.9\%) of the respondents stated that College of Education faculty menbers were the most helpful means in securing employment. The remaining 29 respondents (10.88) reported that "program chairpersons", "themselves", "faculty members outside their own departments", "personal contacts", and "subbing", as means which were helpful in securing their current employment.

Table 19.

| Aid in Securing Employment | Frequency | Percentage |
| :--- | :---: | :---: |
| Faculty member | 32 | 11.9 |
| Department Chairperson | 11 | 4.1 |
| Placement office | 57 | 21.2 |
| Dual Major | 41 | 15.2 |
| Coaching | 110 | 40.9 |
| Self | 8 | 3.0 |
| Outside faculty merbers | 4 | 1.5 |
| Personal Contacts | 2 | .7 |
| Subbing | 4 | 100.0 |
| Total | 269 | . |

How Did You Obtain Your First Teaching Yosition?
Fifty-six per ent (276) of the 493 graduates who were enployed in teaching (full-time, part-time, subbing) responded to the question conceming how they obtained their first teaching position. Approximately onefourth (26.4\%) of these graduates reported that they obtained their teach ing positions through personal contacts. Another fourth of these "teaching" graduates obtained their positions via various means which were categorizsi under the heading, "other". The remaining 133 graduates who were teaching obtained their positions by: a) starting as a substitute and moving into a full-time position ( 17.08 ), b) finding a position in the same district where they student taught (15.6\%), and c) using the Education Per.sonnel Placement Office or other College assistance (15.6\%).

Table 20

| How Job Obtained | Frequency | Percentage- |
| :--- | :---: | :---: |
| Where student taught | 43 | 15.6 |
| Regular via subbing | 47 | 17.0 |
| Personal Contacts | 73 | 26.4 |
| Placement Office | 43 | 15.6 |
| Other | 70 | 25.4 |
| Total | 276 | $\cdots$ |

Location of School in which You Teach
One hundred and thenty-one of the "teaching" graduates (41.78) reported that they taught in suburban schools while just over one-third of these 1 espondents ( 35.58 ) indicated that they taught in nural school setting. The remaining 66 respondents (22.8\%) taught in urban settings.

Table 21

| Location of Schooi | Freauency | Percentage |
| :--- | :---: | :---: |
| Urban | 66 | 22.8 |
| Suburban | 121 | 41.7 |
| Rural | 103 | 35.5 |
| Total | 290 | 100.0 |

## Typical Student Motivation

Approximately two-thirds of the graduates (65.08) who were currently teaching rated the motivation of their students as "average". Almost onefourth of the "teaching" graduates rated their students' motivation as "high" while 36 respondents ( 12.28 ) indicated that their students' motivation was "low".

## Table 22

| Student Motivation | Frequency | Percentage |
| :--- | :---: | :---: |
| High | 67 | 22.8 |
| Average | 191 | 65.9 |
| Iow | 36 | 12.2 |
| Total | 294 | $\ldots \ldots . . . . .$. |

## Classrocm Discipline

Two hundred ard ninety-seven teaching graduates responded to the question regarding classroan discipline. One hundred and eighty-six of these respondents (62.6\% reported that they had "occasional problems" while 20 (6.7\%) teaching graduates stated that they had "many problens." Ninetyone graduates ( $30.7 \%$ ) reported "no problems".

Table 23

| Classman Discirline | Frequency ... | Percentage |
| :--- | :---: | :---: |
| No problems | 91 | 30.7 |
| Occasional Problems | 186 | 62.6 |
| Many problems | 20 | 6.7 |
| Total | 297 | 100.0 |

## Parent Participation

One question on the demographic questionnaire asked the graduates to rate the degree of parent participation in their teaching situations. Almost one-half (45.6\%) of the teaching graduates rated the participation of their pupils' parents as "moderate" while 22.48 rated such participation
as "high" and $32.0 \%$ rated the parents' participation as "low".
Table 24

| Parent Participation | Frequency | Percentage |
| :--- | :---: | :---: |
| High | 63 | 22.4 |
| Moderate | 128 | 45.6 |
| Low | 90 | 32.0 |
| Total | 281 | . |

## Typical Socio-Econonic Status of Students' Families

Graduates who were employed as teachers ( $\mathrm{N}=289$ ) were asked to rate the typical socio-economic status of the punils' families. Approximately two thirds of these graduates (67.8\%) rated their pupils' families SES as "middle". Twenty-five (8.7\%) of the first year teachers rated the SES of their pupils' families as "upper" while the remaining 68 (23.5\%) rated the SES of their pupils' families as "lower".

Table 25

| Typical SES | Frequency | Percentage |
| :--- | :---: | :---: |
| Upper | 25 | 8.7 |
| Midale | 196 | 67.8 |
| Lower | 68 | 23.5 |
| Total | 289 | 100.0 |

## Racial Mix of Pupils

Approximately three-fourths (73.2\%) of the teaching graduates reported that the racial mix of the pupils in their classroans was "few minority students". Almost one-fourth (22.7\%) of these graduates reported that some
of their pupils represented minorities while $4.1 \%$ of the first year teachers taught classes composed primarily of minority pupils.
, Table 26

| Racial Mix | Frequency | Percentage |  |
| :--- | :---: | :---: | :---: |
| Few Minority | 213 | 73.2 |  |
| Same Minority | 66 | 22.7 |  |
| Predominantly Minority | 12 | 4.1 |  |
| Total | 291 | $\cdots$ | 100.0 |

## Pupil-Teacher Ratio

Almost two-thirds (62.4\%) of the respondents who were teaching reported that they taught classes consisting of between 21 and 30 pupils. Afproximately, one-fourth of the teaching graduates taught classes consisting of 1-20 pupils while less than one-tenth (7.38) taught classes which consisted of 30 or more pupils.

Table 27

| Pupil-Teacher Ratio | Frequency | Percentage |
| :--- | :---: | :---: |
| $1-20$ | 73 | 25.2 |
| $21-30$ | 181 | 62.4 |
| Over 30 | 36 | 7.3 |
| Total | 290 | 100.0 |

## School Size

One hundred and twenty-four of the teaching graduates (43.4\%) taught in schools with enrollments of under 500 pupi?s while 112 of the teaching graduates (39.27) taught in schools with 500-1000 pupils. Filvy teaching graduates (17.48) taught in schools with enrollments of over 1000 pupils.

## Table 28



## School Type

As expocted, the overwhelming majority (88.88) of the "teaching" graduates taught in the public schools. All but five of the remaining respondents reported that they taught in private schools.

Table 29

| School Type | Frequency | Percentage |
| :--- | :---: | :---: |
| Public | 261 | 88.8 |
| Private | 28 | 9.5 |
| Other | 5 | 1.7 |
| Total | 294 | 100.0 |

## Type of Classroom

Ninety-one percent (252) of teaching graduates taught in "self-contained classroms while four percent of these graduates (20) taught in "open" classroans. The remaining 5 ( $1.0 \%$ ) graduates who were teaching reported that they taught in "other" classrocms. Further data kill need to de collected in order to define the nature of the graduates' teaching erviroment.

## Table 30

| Type of Classrocin | Freguency | Percentage |
| :--- | :---: | :---: |
| Self Contained | 252 | 91.0 |
| Open | 20 | 4,6 |
| Other | 5 | 1.0 |
| Total | $\ddots$. | . |

## Grade Level Taught

An almost equal percentage of the 295 graduates who were currently teaching taught at the $1-6$ grade level (46.48) as did those who taught at the 7-12 grade level ( $42.0 \%$ ). Fifteen of the "teaching" graduates taught special education classes while 10 of the first year teachers taught at the pre-kindergarten and/or kindergarten level.

Table 31

| Grade Level Taught | Frequency | Percentage |
| :--- | :---: | :---: |
| Pre Kindergarten/Kindergarten | 10 | 3.4 |
| 1-6 | 137 | 46.4 |
| $7-12$ | 124 | 42.0 |
| Special Eciucation | 15 | 5.1 |
| Post Secondary | 6 | 2.0 |
| Other | 3 | 1.0 |
| Total | 295 | 100.0 |

Attitude Towarci Teaching in General
The overwhelming majority of the gracuates who were teaching (88.28)
rescribed therselves as being "very satisfied" or "scmewhat satisfied"
relative to "teaching in general". Only 35 "teaching" graduates (11.8\%) described their attituces toward "teaching in general" as being "neutral". "samewhat dissatisfied", or "very dissatisfied".

Table 32

| Attituces Toward Teachzng | Frecquency | Percentage |
| :--- | :---: | :---: |
| Very Satisfied | 160 | 53.9 |
| Somewhat Satisfied | 102 | $34.3:$ |
| Neutral | 14 | 4.7 |
| Scmewhat Dissatisfied | 20 | 6.7 |
| Very Dissatisfied | 1 | .3 |
| Total | 297 | $100: 0:$ |

Attitude Tovard Present Teaching Position
Approximately eight-percent of the "teaching" respondents reported that they were "very satisfied" or "somewhat satisfied" in their teaching positions. Twenty-six of these first year teachers (8.8\%) were "neutral" concerming their attitude toward present positions while just over one-tenth of the graduates stated that they were "scmewhat dissatisfied" or "very dissatisfied" in their teaching positions.

Table 33

| Attitude Toward Present Job | Fremency | Percentage |
| :--- | :---: | :---: |
| Very Satisfied | 121 | 40.7 |
| Sanewhat Satisfied | 119 | 40,9 |
| Neutral | 26 | 8.8 |
| Sanewhat Dissatisfied | 23 | 7.7 |
| Very Dissatisfied | 8 | 2.7 |
| Total | 297 | 100.0 |

## Perceptions of Professional Preparation

Graduates who were currently teaching were asked to indicate their perceptions concerning their professional preparation by circling as many alternatives that applied to their undergraduate education at The ohio State University. A total of nine alternatives were listed. More graduates (89.6\%) selected the alternative, "ny student teaching was useful" than any other alternative. The second highest percentage of "teaching" gradum ates (71.7\%) indicated that ". . . the program courses (courses taken after one has been screened into the College of Education) were useful." Approximately two-thirds (68.78) of the respondents "reported that ". . . the College of Education did a good job preparing me to teach." An almost equal percentage (65.7\%) of "teaching" graduates stated that their ". . . interaction with other students was useful." Just under one-half (48.5\%) of the respondents indicated that "the core courses (courses taken before screening into the College of Education), were useful." Almost one-fifth (18.9\%) reported that these same courses were useless. An additional 23.68 circled the following alternatives: 1) "overall, the College of saucation did not do a good job preparing me to teach," 21 "the program courses were not useful," and 3) "ry sturent teaching was useless."

Table 34

| Professional Prexaration | Freguency | Percentage |
| :--- | :---: | :---: |
| Core Courses Useful | 144 | 48.5 |
| Core Courses Useless | 56 | 18.9 |
| Program Courses Useful | 213 | 71.7 |
| Procgram Courses Useless | 26 | 8.8 |
| Student Teaching Useful | 266 | 89.6 |
| Sturdent Teaching Useless | 12 | 4.0 |

Table 34 (cont'd)

| Professional Preparation | Freruency |  | Percentage |
| :---: | :---: | :---: | :---: |
| Student Interaction Useful | 195 |  | 65.7 |
| Overall Good Preparation | 204 |  | 68.7 |
| Overall Poor Preparation | 32 |  | 10.8 |
| Total | 1148 |  | ... |

Upgrading Teaching Effectiveness
One huncred and three of the 253 "teaching" graduates reported that having "fewer or smaller classes" would be the most helpful in upgrading their teaching effectiveness. The altematives "more lesson preparation time" and "better professional preparation" were selected by $22.9 \%$ and $19.0 \%$ of the "teaching" graduates, respectively as most helpful in improving their teaching. Finally, approximately one-tenth (9.9\%) of the respondents stated that "more support from other school personnel" would be the most helpful means in upgrading their teaching effectiveness.

Table 35

| Upgrading Teaching Effect | Frequency |  | Percentage |
| :--- | :---: | :---: | :---: |
| Smaller Classes | 103 |  | 40.7 |
| Better Professional Preparation | 48 |  | 19.0 |
| More School Support | 25 |  | 9.9 |
| More Lesson Preparation | 58 |  | 22.9 |
| Other | 19 |  |  |
| Total | 253 |  | .. |

## Most Valuable Library-Media Center Service

Over one-third (37.18) of the "teaching" graduates reported that, "development and production of audiovisual materials for classrocm use" was the most valuable library-media center service. Approximately one-tenth of the respondents ( 11,28 ) who were teaching reported that the most valuable library-media center service was "regular assistance to students in developing class projects" while 11.68 indicated that the "develoment of bibliographies of center materials relevant to your own and students' needs in the classes" was the most valuable service offered. The remaining $40.3 \%$ of the respondents who were teaching reported that the services were inadequate, not offered, not needed, or that they didn't have time to use them.

Table 36

| Valuable Library-iedia Service | Frequency | Percentage |
| :--- | :---: | :---: |
| Development of Production <br> of Materials | 86 |  |
| Assistance to Students | 26 | 17.1 |
| Development of Bibliography | 27 | 11.2 |
| Services Not Valuable | 48 | 20.7 |
| No Services Offered | 38 | 16.4 |
| No Time to Use Services | 5 | 2.2 |
| Not Needed | 2 | 1.0 |
| Total | 232 | 100.0 |

## Guidance Staff Availability

Eighty-one respondents ( $30,8 \%$ ) reported that there was a guidance staff member available to work with pupils on a full-time basis while 80 respondents
(30.48) stated that a guidance staff member was available to students on a part-time basis. Fifty-eight of the respondents (22.18) stated that a member of the guidance staff was available to work with parents. Finally, 40 "teaching" graduates reported that no guidance services were offered to either pupils or their parents.

Table 37.

|  |  | $\therefore$ |
| :--- | :---: | :---: |
| Gidance Staff Availability | Frequency | 58 |
| Available to Parents | 81 | 22.1 |
| Available to Students Full-time | 30.8 |  |
| Available to Students Part-time | 80 | 30.4 |
| No Service Offered | 40 | 15.2 |
| Other | 4 | 1.5 |
| Total | 263 | 100.0 |

## Assistance with Discipline Problems

one hundred and ninety-two of the 275 teaching graduates ( $69.8 \%$ ) who responded to the: question concerning the availability of assistance with discipline problems reported that such assistance was "available and effective." Fifty-one respondents (18.5\%) reported that either no such assis." tance was available or that it was available only in extreme circumstances. Twenty-five respondents (9.18) stated that "assistance was available but admission of need was viewed negatively." Only six respondents (2.28) specified that they had no discipline problens while 1 respondent reported that assistance was available, but ineffective.

Table 38

| Discipline Assistance | Frequency | Percentage |
| :--- | :---: | :---: |
| Assistance Available | 192 | 69.8 |
| Assistant Availailit for Extreme <br> Cases | 44 | 16.0 |
| No Assistance Availiable | 7 | 2.5 |
| Viewei Negecively But Available | 25 | 9.1 |
| Nb Problems | 6 | 2.2 |
| Available but Ineffective | 1 | .4 |
| Totzi: | 275 | 100.0 |

## Supervison oī Extracurricular Activities

Appro:imately two-thirds ( $64.6 \%$ ) of the teaching graduates reported that supervision of activities was voluntary. Sever.ty-five of the teaching respondents ( 28.98 ) reported that the supervision of extra-curricular activities was either required or expected by their school administrators. Finally, 17 graduates ( $6.5 \%$ ) stated that such supervision was a condition of their employment with the school district.

Table 39

| Etracirricular Suporvision | Froquency | Percentage |
| :--- | :---: | :---: |
| Voluntary | 168 | 64.6 |
| Expected By Aministration | 59 | 22.7 |
| Required by Acministration | 16 | 6.2 |
| Condition of Fmployment | 17 | 6.5 |
| Iotal | 260 | 100.0 |

## Evaluation of Teachinc By Sci:xol Airninistrators

Slightly over one-third of the graduates who were teaching (34.0\%) reported that their teaching was evaluated by a school adrinistrator two to three times while $29.4 \%$ of these graduates stated that their teaching was evaluated on a single occasion by a school acministrator. Thirty-three teaching graduates ( $11.8 \%$ ) did, however, report that they were evaluated on four or more occasions by a school administrator. Finally, almost onefourth (24.8\%) of the graduates stated that they had not been evaluated by a school administrator.

Table 40

| Times Evaluated | Frecuency | Percentage |
| :--- | :---: | :---: |
| 0 Times | 70 | 24.8 |
| 1 Time | 83 | 29.4 |
| $2-3$ Times | 96 | 34.0 |
| $4-6$ Times | 23 | .8 .2 |
| Over 6 Times | 10 | 3.6 |
| Total | 282 | 100.0 |

## Fonmal Evaluation of Teaching

The responders were asked to name the persons who formally evaluated their teacling. (More than one response was possible). sixty-six of the 160 "teacining graduates" (41.3\%) who responded to the questionnaire item concerning the evaluation of their teaching reported that their department heads were responsible for evaluating their teaching. About ore-third of the "teaching" respondents (30.6\%) stated that curriculum specialists evaluated their teaching. Approximately one-fourth of the first year teachers (24.48) indicated that principals or other administrators evaluated their teaching. Finally, one-fifth of the respondents reported
that their teaching colleagues evaluated their teaching while slightly
fewer respondents ( $18.8 \%$ ) stated that their students evaluated their classroom teaching.

Table 41

| Formal Evaluation | Frequency | Percentage |
| :--- | :---: | :---: |
| Teaching Colleagues | 32 | 20.0 |
| Department Head | 66 | 41.3 |
| Students | 30 | 18.8 |
| Curriculum Specialist | 49 | 30.6 |
| Principal/ Administrator | 39 | 24.4 |
| County Supervisor | 1 | .6 |
| Total | 217 | 100.0 |

## Means of Evaluating Teaching

An open-ended questionnaire item requested graduates to describe the means by which they evaluated their own teaching Their feedback was placed in the following four categories: 1) test scores, 2) other teachers, 3) student feedback, and 4) student improverent. Ninety-eight of the 215 re spondents ( 45.68 ) stated trat they relied on the test scores of their students while 41.98 of the first year teachers used other types of student feeaback to evaluate their tezching. Sixteen responsents (7.48) reported that they relied on their teaching peers to help tham evaluate their teaching. Finally, "student improvement" wats listed by 11 "teaching" graduates (5.18) as a means for evaluating their teaching.

## Table 42

| Means of Evaluating Teaching | Frequency | Percentage |
| :--- | :---: | :---: |
| Test Scores | 98 | 45.6 |
| Other Teachers | 16 | 7.4 |
| Student Feediack | 90 | 41.9 |
| Student Improvement | 11 | 5.1 |
| Total | 215 | 100.0 |

## Most Help to Professional Development

Graduates who were presentiy teaching were asked to indicate the people who were most helpful to their professional development. The majority of those who responded $(83.0 \%)$ reported that their teaching colleagues were the mast helpful in terms of their development. Approximately one-fourth (22.78) of the "teaching" graduates stated that school administrators played helpful roles in promoting their professional developnent. Department chairpersons were perceived by $13.0 \%$ of the respondents to pe helpful in this respect. School counselors, "being on my own," reading specialists, and "others" received only limited recognition by this study's first year teachers.

## Table 43

| Help to Professional Develophent | Frequency | Percentage |
| :--- | :---: | :---: |
| Administrators | 63 | 22.7 |
| Teaching Colleagues | 230 | 83.0 |
| Department Head | 36 | 13.0 |
| Counselor | 13 | 4.7 |
| Being on my own | 4 | 1.4 |
| Reading Specialists | $\ddots$ | .4 |
| Others | 2,30 | .4 |
| Total |  | 100.0 |

Key Person Who Provided Support
Just over one-half o_ the "teaching" graduates reported that a "fellow teacher" was the key person who provided support during their first year. School administrators and relatives were indicated by $22.6 \%$ and $20.6 \%$, respectively, of the respondents as being the key people who provided supporc. School counselors, supervisors, and "themselves" were selected by a total of 13 respondents as being key persons who provided support.

## Table 44

| Key Person For Support | Frequency | Percentage |
| :--- | :---: | :---: |
| Acministrator | 58 | 22.6 |
| Counselor | 10 | 3.9 |
| Fellow Teacher | 133 | 51.8 |
| Relative | 52 | 20.6 |
| Supervisor | 2 | .8 |
| Themseives | 1 | .4 |
| Spouse | 1 | .4 |
| Total | 257 | 100.0 |

Teacher Warmth and Closeness Versus Getting work Done
First year teachers v are asked to irdicate which of the following teaching quilities was more irmortant: 1) "wanmth and closeness" or 2) "getting work done". The "teaching" graduates favored "warmth and closeness" over "getting work done" by a margin of $58.9 \%$ to $41.1 \%$.

Table 45

| Closeness Verslis lork Done | Frequency | 以reentage |
| :--- | :---: | :---: |
| Closeness | 155 | 58.9 |
| Getting Work Done | 108 | 41.1 |
| Total | 263 | 100.0 |

Major Attraction of Teaching
One hundred and seventy-fcur of the total $216^{\text {"teaching" graduates }}$ (80.68) I _ported that their "working with children" was the major attractuon that the teaching profession held for them. "personal enjoyment" derived from teaching was listed by 58 "tetc! $T^{\prime \prime}$ graduates (26.98) as being the "major attraction". The amount $c$ " varation lime afforded to teachers was indicated by $15.7 \%$ of the respondents as being the major attraction that teaching held for them. fhe chance to coacin was listed by 17 first year teachers (7.98) as the major attraction relative to teaching.

$$
\text { Table } 4 \overline{6}
$$

| Atiraction of Teaching | Frequency | Fercentage |
| :--- | :---: | :---: |
| Vacation Time | 34 | 15.7 |
| Work with children | 174 | 80.6 |
| Coaching | 17 | 7.9 |
| Personal Enjoyment | 58 | 26.9 |
| Total | 216 | 100.0 |

## General Comments

The final item on the denoxraphic instrunent provided the respondents an opportunity to list their general comments about years in the OSU College
of Education. A total of 62 separate conments were made by 60 respondents. The comments were placed into 7 categories. One-half of the graduates' comments praised their preparation at OSU. The lack of actual teaching was focused upon in 11 of the graduates comments. Six graduates commented that the Education Foundation and Research courses were too idealistic and overlapping. Five graduates related that the branch campuses of the Ohio State University were better than the main campus. The need for courses focusing on evaluation and aministration was the subject of four corments. Three graduates commented that the math/science program at OSU was the best. Finally, two sraduates stated that the services offered by Education Personnel Placement Office were poor.

Table 47

| General Coments | Frecuency | こercentage |
| :--- | :---: | :---: |
| Math/Science is best | 3 | 4.8 |
| F\&R Classes are idealistic and |  |  |
| overlapping | 6 | 9.7 |
| Not Enough Field Experience | 11 | 17.7 |
| Poor Placement Service | 2 | 3.2 |
| I'm Well Prepared | 31 | 50.0 |
| Need Evaluation Course and |  |  |
| $\quad$ Administration Course | 4 | 6.5 |
| Branch Campus Was Better | 5 | 8.1 |
| Total | 62 | 100.0 |

Questionnaire Results (Onth/Science Graduates 1975-1979)

The Typical Math/Science Graduate: A Composite portrait

Fram the overwhelming data, this camosite of the typical 1975-1979 Math/Science graduate energes:

- white male, although $42.0 \%$ of the graduates were female
- age 20-25
- one or more years of teaching experience
- campleted entire degree at OSU
- rated the Placement Service as good or better
- plans to get an MA in a field other than education in the next few years
- obtained his/hci teaching position through a variety of means, i.e., personal contacts, placesient office, etc.
- taught in a suburban setting,
- has occasional discipline problems
- teaches classes which ranged in size from 21 to 30 pupils
- teaches in schools with enrollments of under 1000
- teaches in a public school in a self-contained classroom in a midale-class school with fow minority students
- is "very satisfied" with teaching in general
- is very satisfied or "scmewhat satisfioa" with their present position
- teaches in schools where students have access to full-time gridance personnel
- has effective assistance available when ciscipline problems occur
- feel his/her OSU education was generally adequate
- uses student test scores as a means for evaluating his/her teaching
- is helped the most in pronoting his/her professional developments by his/her teaching colleagues
- is supported by his/her teaching colleagues
- thought that "getting work cone" is more imfortant than "waumth and closeness"
- was attracted to teaching because he/she wanted to work with children

These specific cata will anplify the above corposite.

## Current Rmployment

Approximately one-half (49.63) of the math/science graduates who responded to demograficic instrment reported that they were teaching wile four other graduates were currently substitute teaching at the K-12 level. Five lespondents were ermloyed in post-secondary aucation. Eight graduates were employed by the military. A like number were unemployod. Four of the 141 respondents entered into gracuate stucies while two were involved in coaching. Over one-fourth of the graduates (28.4\%) reported that they were employed in a variety of positions. These responses were categorized under the heading, "other".

Table 48

| Gurrent Enployment | Frequency | Percentage |
| :--- | :---: | :---: |
| Classroam teaching | 70 | 49.6 |
| Post Secondary | 5 | 3.5 |
| Subbing | 4 | 2.8 |
| Unemployed | 8 | 5.7 |
| Coaching | 2 | 1.4 |
| Grad studies | 4 | 2.8 |
| Military | 8 | 5.7 |
| Other | 40 | 28.4 |
| Total | 141 | 100.0 |

## Age, Sex, Race

Just over one-half of the math/science graduates were between the ages 20-25. Fifty-five graduates ( $38.5 \%$ ) were between $26-30$ years of age. The 11 remaining graduates (7.7\%) were 31 years old or older.

Table 49

| Age | Frequency | 77 |
| :--- | :---: | ---: |
| $20-25$ | 55 | 53.8 |
| $26-30$ | 8 | 38.5 |
| $31-35$ | 2 | 5.6 |
| $36-40$ | 1 | 1.4 |
| Over 40 | 143 | 0.7 |
| Total | 100.0 |  |

Eighty-three of the gricuates ( $53.0 \%$ ) were male while 60 were female (42.08) . All 143 of the math/science respondents were white.

Table 50

| Sex | Freruency | Percentage |
| :--- | :---: | ---: |
| Fenale | 60 | 42.0 |
| Male | 83 | 58.0 |
| Iotal | 143 | 100.0 |

## Table 51

| Race | Frequency | Percentage |
| :--- | :---: | ---: |
| White | 143 | 100.0 |
| Total | 143 | 100.0 |

## Years Teaching Experience

Approvimately one-third of the respondents (32.28) reported that they had not taught. Twenty-seven graduates (18.9\%) stated that they had taught one year while an identical number indicated they had 4 or more years of teaching experience. Twenty-three of the respondents (16.1\%) had taught three years. Finally, 20 graduates (14.0\%) had taught 2 years.

Table 52

| Years Teaching Experience | Frocuency | Percentage |
| :--- | :---: | :---: |
| 1 | 46 | 32.2 |
| 2 | 27 | 18.9 |
| 3 | 23 | 16.1 |
| 4 or more | 27 | 18.9 |
| Total | 143 | 100.0 |

## Students tho Trarsferred to Ohio State

Slightly over three-fourths of the math/science graduates completed their antire undergraduaie degree at OSU. Twenty-two of the graduates (15.6\%) transferred to OSU during their sophomore year while 7 (5.0\%) transferred during their junior year.

Table 53

Transfer Students
Fremency
Percentage
Did not transfer
107 75.9

Transferred Soph. year 22 15.6

Transferred Jr. year
7
5.0
$\begin{array}{lll}\text { Other } & 5 & 3.5\end{array}$
Total
141 100.0

## Prograrn Area

Approximately one-half of the 143 graduates (47.6\%) majored in the program area, Nath Education. The seoond largest number of graduates, 44 (30.89) of the total 143) majored in Biological Science. Eighteen graduates
(12.68) majored in Science Education wihle 10 (7.08) majored in Earth Science. The program area, Physical Science, was majored in by 3 (2.18) of the math/sicence respondents.

Table 54

| Program Area | Frequency | Percentage |
| :--- | :---: | ---: |
| Biological Sciencw | 44 | 30.8 |
| Earth Science | 10 | 7.0 |
| Math Ed | 68 | 47.6 |
| Physical Science | 3 | 2.1 |
| Science Ed | 18 | 12.6 |
| Tbtal | 143 | 100.0 |

## Educational Placement Service

Ovor one-half of the 141 respondents (54.6\%) irdicated that "asserbling credentials and making these available to hiring officials" was the most helpful service provided by the Education Personnel Placement Office. "Previding graduates with information regarding vacancies" was reported by 15.6 of math/science graduates to be the most helpful service offered. Five of the respondents stated that recomending graduates for specific positions was the most helpful service while 1 graduatr selected the altermative, "helping me prepare my data sheet or resume; helping me prepare for interviews." Six graduates listed a variety of "most helpful services" listed on the demographic instrment. Fi ally, 30 graduates (21.38) indicated that none of the placement services listed were perceived to be helpful. that none of placent services listed wore perceived to be helpful.

## Table 55

| Placement Service | Frequency | Percentage |
| :--- | :---: | ---: |
| Assembled Credentials | 77 | 54.6 |
| Provided information | 22 | 15.6 |
| Recommended for positions | 5 | 3.5 |
| Resume help | 1 | .7 |
| None | 30 | 21.3 |
| Other | 6 | 4.3 |
| Total | 141 | 100.0 |

The second questionnaire item which pertained to the Education Personnel Placement Office requested the math/science respondents to rate the placemust services offered. Almost two-thirds of the graduates ( $63.8 \%$ ) rated the services as "excellent" or "good." Twenty-three respondents (16.3i) rated the services as "fair" while 3 (2,1\%) rated them as "unsatisfactory." Twenty-five of the graduates (17.7\%) did not rate the services offered because they did not use these services.

Table 56

| Placement Office | Frequency | Percentage |
| :--- | :---: | ---: |
| Excellent | 33 | 28.4 |
| Good | 57 | 40.4 |
| Fair | 23 | 16.3 |
| Unsatisfactory | 3 | 2.1 |
| Did not use | 25 | 17.7 |
| Total | 141 | 100.0 |

Future Professional Study
When asked if they were consiciering further professional study over one-third of the math/science graduates responced that any further study would be in the pursuit of their liaster's Degree in Education; one graduate reportod that he/she was considerina further professional study that would lead to a Doctorate Degree in education. Three other graduates (2.1\%) indicated that they were considering further professional study that would lead to a Specialist Degree in education. Fifty-seven graduates (40.18) stated that they were considering further professional study which would lead to degrees outside of the educational field. Forty of these graduates (28.28) were considering degrees in engineering. The remaining 17 graduates (12.0:) wore considering degrees in fields such as biology, natural resources, nutrition, accounting, business, law, and medicine.

## Table 57

| Future Professional Stuiy | Frecuency | Percentage |
| :--- | :---: | ---: |
| MA Ed | 55 | 38.7 |
| PhD Ed | 1 | .7 |
| Specialist Degree | 3 | 2.1 |
| Engineering | 40 | 28.3 |
| No Study | 26 | 18.3 |
| Biology, nat resources, rutrition | 7 | 4.9 |
| Accounting, Business, Law | 6 | 4.2 |
| Other | 3 | 2.1 |
| Medical Field | 1 | .7 |
| Total | 142 | $10: 1.0$ |

nploymont Related to Teaching, But Not Teaching
Graduates were asked if their present jobs, wile not teaching positions, were still directly related to their degree cbtained fron 0SU. Of the 141 graduates who responded to this item only 8 (5.78) confirmed that they had taken this type of employment.

## Table 58

Employment Related to Teaching Frequency_P_ Percentage

| Related Jobs | 8 | 5.7 |
| :--- | ---: | ---: |
| Does not apply | 133 | 94.3 |
| Total | 141 | 100.0 |

## Seeking a Teachirg Position

Sixty"three "nonteaching" math/science graduates (44.1\% of the total math/science respondents) responied to the item wiich asked them if they had ever sought a teaching position. Almost three-fourths of the respondents (71.48) roported that they sought a teachirg position but did not gain employmant.

Table 59

Seeking a position
Frequency
Percentage

| Yes | 45 | 71.4 |
| :--- | ---: | ---: |
| No | 18 | 23.6 |
| Total | 63 | 100.0 |

## Reasons for Not Teaching

Approximately one-half of the "ronteaching" math/science graduates (48.38) reported that the reason they were not teaching was due to their decision to change professions. Slightly less than one-third of these graduates ( $30.0 \%$ ) listed a variety of reasons why they were not teaching, these reasons were categorized uncer the heading, "other." Finally, 8 of the graduates (13.38) indicated low salaries was the main reason why they were not teaching while 5 graduates (8.38) stated that no jobs were available.

Table vo

| Reasons for Not Teacining | Frequency | Percentage |
| :--- | :---: | ---: |
| Changed Professions | 29 | 48.3 |
| No Jobs available | 5 | 8.3 |
| Low Salary | 8 | 13.3 |
| Other | 18 | 30.0 |
| Total | 60 | 100.0 |

## Regret for Not Teaching

Graduates were asked if they regreted that they were not teaching. Of the 61 who responicd to this item, only 10 graduates stated that they regretted not teaching.

Table 61

| Rearet for liot Teaching | Freguency | Percentage |
| :--- | :---: | ---: |
| Yes | 10 | 16.4 |
| No | 51 | 83.6 |
| Total | 61 | 100.0 |

Current Emplowent of $B$ - B -Teaching Graduates
Forty-eig'ht "nonteaching" graduates responded to the open-ended question conceming their present employment. Twenty of these gracuates (41.7\%) were employed in the fields of business, sales, and law. Eight graduates (16.7\%) began further graduate stuxy riile 6 graduates (14.8\%) entered into the military. Tre remaining graduates found employment in administration, medically-related fields, substitute teaching. One graduate reported erployment as a housevife.

## Table 62

| Erqloyment of Non-teaciers | Frequency | Percentage |
| :--- | :---: | ---: |
| Graduate student | 8 | 16.7 |
| Subbing | 2 | 4.2 |
| Housewife | 1 | 2.1 |
| Administration | 5 | 10.4 |
| Business, Sales, Law | 20 | 41.7 |
| Military | 7 | 14.8 |
| Medical Field | 5 | 10.4 |
| Total | 48 | 100.0 |

## Hamy in Current Position

When aske, if they were happy in their surrent positions, all but 3 of the "nonteaching". gracuates reported that they were happy.

Table 63

| Hapy in Position | Frequency | Percentage |
| :--- | :---: | ---: |
| Yes | 59 | 95.2 |
| No | 3 | 4.8 |
| Total | 62 | 100.0 |

## Usefulness of Eduration Dearee

The "nonteachirg" graduates were asked to indicate the usefulness of their Education degree in tems of their obtaining employment. Two thirds of these respondents stated that their degrees helped then in their present jcbs. Ten of the 60 "nonteaching" respondents (16.7\%) reported, however, that they ". . . could have majored in anything to get this job." Another 6 ( $10.0 \%$ ) inciicated that they needed their Bachelor's Degree to be onployed in their present jcbs, but that they did not apply what they learned at OSU. One-fifth of the "nonteaching" graduates listed a variety of canments concerning the usefulness of their degrees; these comments were categorized under the heading, "other".

Table 64

| Uscfulness of EA Degree | Frequency | Percentage |
| :--- | :---: | :---: |
| Helped with present job | 40 | 66.7 |
| Needed B.S. to get job but <br> did not apply | 6 | 10.0 |
| Majored in anything | 10 | 16.7 |
| Other | 12 | 20.0 |
| Total | 60 | 100.0 |

## Current Educational Erployment

Eighty-one of 143 graduates ( $56.6 \%$ ) were currently teaching at the time they carpleted the demographic/professional perspective instrument. Sixty-nine of these 81 "teaching" graduates ( $85.2 \%$ ) stated that they were employed in their major field of stucy while 7 graduates ( $8.6 \%$ ) reported that they were employed in their minor field of study. The 5 remaining graduates (6.2\%) were either employed in educational fields other than those they were prepared for at OSU or responded "not applicable".

Table 65

| Current Educational Enployment | Frexuency | Percentage |
| :--- | :---: | ---: |
| Employed in Major field | 69 | 85.2 |
| Employed in Minor field | 7 | 8.6 |
| Employed in other field | 2 | 2.5 |
| Not applicable | 3 | 3.7 |
| Total | 81. | 100.0 |

## Aid in Securimg Emplownt

Approximately one-thirc of the "teaching" graduates (35.4) indicated that the Education Personnel Placement Office was the most helpful means in ajding them to secure employment. Slight?y over one-fifth of the graduates (22.8\%) r ported that comleting a dual major at OSU was the single most helpful reans in aiding them to cbtain croploment. Thirteen of the "teaching" gracuates (16.5\%) stated that a college of Eaucation faculty momber was the most helpful means in securing their teaching positions. Just over one-tenich of the yrachates ( $10.1 \%$ ) reported that their ability to assme coachirg duties facilitated their obtainjng their present positions. Sevin of the grajuates ( 8.90 ) who were currently teaching stated that they relied on their am personal initative in securing their positions. The
four romaining alterratives to this item: 1) referrals by departtent chairpersons, 2) referrals by faculty utside one's department, 3) personal contacts, and 4) securing employment were selected by a total of 5 graduates.

$$
\text { Table } 66
$$

| Aid in Securing Emoloytent | Frequency | Percentage |
| :--- | :---: | :---: |
| Faculty member | 16.5 | 13 |
| Dept. Chairperson | 1 | 1.3 |
| Slacement Office | 28 | 3.4 |
| Dual Major | 18 | 22.8 |
| Coaching | 8 | 10.1 |
| Self | 7 | 8.9 |
| Cutside faculty member | 2 | 2.5 |
| Personal contacts | 1 | 1.3 |
| Subbing | 1 | 1.3 |
| Total | 79 | 100.0 |

Hav Did You Obtain Your First Teachira Position?
Thenty-eight of the "teaching" responcents (35.48) listed a wide varicty of ways in which they cbtained their first teaching positions. These reaponses were categorized uncisr the heading, "other". Approximately one-third of the "teachirg" gracuates ( $32.9 \bar{z}$ ) indicated that they obtained their positions through the "Placcnent Office or other Cullege assistance. "Slightly over one-fifth (21.5\%) reported that they securci emoloyno.t with the help of porscnal cuntacts (Eriencs, relatives). Finally, fuur respondents (5.18) reported that they fourd a job in the district where they
student taught whi"? an equal number stated that they began $a^{-}$a substitute teacher and were lator hired as regular teachers.

## Table 67

| How Teaching Position Obtained | Frecquency |  |
| :--- | :---: | :---: |
| Where student taught | 4 | Percentage |
| Via subbing job | 4 | 5.1 |
| Personal contact | 17 | 5.1 |
| Placement Office | 26 | 21.5 |
| Other | 28 | 32.9 |
| Total | 79 | 35.4 |

## Location of School in thich You Teach

Approximately one-half of the "teaching" respondents (47.5\%) reported that they taught in suburian schools. Orer one-thira of the graduates (37.58) taught in rural settings wile $15.0 \%$ taught in urban settings.

Table 68

| Iocation of School | Frequer.cy | Percentage- |
| :--- | :---: | :---: |
| Urban | 12 | 15.0 |
| Suburban | 38 | 47.5 |
| Rural | 30 | 37.5 |
| Toral | 80 | 100.0 |

## Typical Student Hotivation

Over one-half of tre "teaching" cracuates (58.0\%) reportcd that their students' motivation level was "arerage". Fighteren of the "teaching" graduates (22.23) rated their stwents' notivation level as "hign" while 36 first
year teachers (19.8\%) rated their pupils" motivation level as "low". Table 63

|  |  | Frequency |
| :--- | :---: | :---: |
| Student Motivation | 18 | Percentage |
| High | 47 | 22.2 |
| Average | 16 | 58.0 |
| Low | 81 | 19.8 |
| Total |  | 100.0 |

## Classroom Discipline

The largest number of first year teachers ( 49 of the 80 respondents or 61.38 ) reported that they had "oscasional" classrom discipline problems. Over one-third of the rospondents ( 35.0 ) stated they had ".o problems" winile only 3 "teaching" graduates (3.7\%) indicated that they had "many problems" conceming classroom discipline.

Table 70

| Classroom Discipline | Frequency | Percentage |
| :--- | :---: | :---: |
| No Problems | 28 | 35.0 |
| Occasional Problems | 49 | 61.3 |
| Many Problems | 3 | 3.7 |
| Total | 80 | 100.0 |

## Parent Participation

All but 9 of the 78 "tanching" graduates ( $38.5^{\circ}$ ) who repondce to the item concoming the cogree of participation by the parents of the p pupils rated such participation as "moderate" (44.93) or "las (43.68). The
remaining 9 graduates (11.58) rated the parents' participation as "high". Table 71

| Parent Participation | Frequency | Percentage |
| :--- | :---: | :---: |
| High | 9 | 11.5 |
| Mocicrate | 35 | 44.9 |
| Low | 34 | 43.6 |
| Total | 78 | 100.0 |

'Typical Socio-Economic Status of Stusents' Families
Approximately two-thrics of the first year teachers (65.48) rated the typical SES of their pupils' families to be "middle". The remaining respondents were almost eq', 'ly diviced in their ratings with 14 graduates (17.92) indicating that the SES of their pupils' families as beirg "lower" while 13 graduates ( $16.7 \%$ ) rated their pupils' families SES as "upper".
rable 72

| Socio- E conconic Status of families | Frowency | Percentage |
| :--- | :---: | :---: |
| Upper | 13 | 16.7 |
| Micale | 51 | 65.4 |
| Lewer | 14 | 17.9 |
| Iotal | 78 | 100.6 |

Pacial :ix of Pupils
Approximately three-fourtis of the "teaching" graduates (74.18) reported that they had "fen minority stucents" in their classroms. Just dnder one-fifth of the responeents (19.7\%) stated that they had "some minority, scme wite" students in their classroons wile 5 first year teachers ( $6.2^{\circ}$ ) indicatod tinat tieir stuants were "pr ioninantly minority".

| Racial Mix | Frequency | Percentage |
| :--- | :---: | :---: |
| Few Minority | 60 | 74.1 |
| Some Minority | 16 | 19.7 |
| Predominantly minority | 5 | 1.2 |
| Total | 81 | 100.0 |

Pupil-Tcacher Ratio
The clcar majority of the "teaching" graduates (71.8\%) taught in classes whin ranged in size from 21 to 30 pupils. Approximately one-fourth of the graduates (23.1\%) were teaching classes of 20 o: less pupils while just 4 graduates (5.18) taught classes of 30 or more pupils.

Table 74

| Pupil-Teacher Ratio | Fresuency | Percentage |
| :--- | :---: | :---: |
| $1-20$ | 18 | 28.1 |
| $21-30$ | 56 | 71.8 |
| Cuer 30 | $\cdot$ | 5.1. |
| Total | , | 100.0 |

## School Size

Thirty-five of tre "teaching" graduates (4:.8\%) taught in schools with enrollmonts of $500-1000$ pupils. One-third of the graduates taught in schools with errolments of 500 purils or less while 18 first year ceachers (22.5\%) taught in larger schools where the total number of pupils was over 1000.

| School Size | Frequency | Percentage |
| :--- | :---: | :---: |
| Under 500 | 27 | 33.8 |
| $500-1000$ | 35 | 43.8 |
| Over 1000 | 18 | 22.5 |
| Total | 80 | 100.0 |

Scinool Type
Seventy-one of the "teaching" graduates (89.9\%) taught in public schools. The remaining 8 responcents ( 10.28 ) taught in private institutions or in same "other" type of school.

Table 76

| School Type | Frequency | Percentage |
| :--- | :---: | :---: |
| Public | 71 | 89.9 |
| Private | $\ddots$ | 8.9 |
| Other | 1 | 1.3 |
| Total | 79 | 100.0 |

## Type of Clessroom

As $\sim$ uld be expected, most of the "teaching" graduates (89.9\%) taught in self contained classrocms. Only 8 of the 79 respondents (10.2\%) taught in open or "other" triyes of classroans.

Table 77

Type of Classrocm
Frequency
Percentage
Self Contained
71. 89.8

Open 7

$$
8.9
$$

Other
1
1.3

Total
79
100.0

Ganionel
All but 6 of the math/science "teacining" greduates (92.7s) tuaght at The secondary level (7-12). Five of the 6 remining graciuates (6.1\%)
taught at the post-secondary level while a simgle graduate taught at the elementary level (1-6).

Table 78

| Grade Level Taught | Frequency | Percentage- |
| :--- | :---: | :---: |
| $1-6$ | 1 | 1.2 |
| $7-12$ | 76 | 92.7 |
| Post-Secondary | 5 | 6.1 |
| Total | 82 | 100.0 |

Attitude Toward Teacinirg in Gereral
Eighty-three first year math/science teachers responded to the question, "Which one of the following best descriws ycur present attituce toward teaching in general?" Sixty-three of these responcents (75.98) described their attitudes toward teaching as "very satisfied" or "somewhat satisfied". Five responcents ( 6.08 ) were "neutral" while 14 gradwates ( $16.9 \varepsilon$ ) cescribed their attituces toward teacing in general as "scruewhat dissatisfied". Only 1 responcint ( $1.2 \%$ ) stated that they were "very dissatisfied" relative to teachirg in general.

Table 79

| Attitude Tosard fonchira | Frecmency | Per sentage |
| :--- | :---: | :---: |
| Very satisfied | 34 | 41.0 |
| Somowhat satisfied | 29 | 34.9 |
| Neutral | 5 | 6.0 |
| Scmowhat dissatisfied | 14 | 16.9 |
| Very dissatisfied | 1 | 1.2 |
| Total | 83 | 100.0 |

## Attitude Toward Present Tcaching Position

Just over thee-ficurths of the "teaching" respondents (75.6\%) indicated that they were either "very satisfied" or "somewnat satisfied" in their present teaching position. Fourteen graduates (17.1\%) reported they were "somewhat dissatisfied" while only 2 respondents (2.4\%) stated they were "very dsisatisfied in their present position. Finally, 4 "teaching" graduates rated their attitude taiards their present positions as "ne"itral". Table 80

| Attitude Towara Present Job | Frequency | Percentage |
| :--- | :---: | :---: |
| Very satisfied | 31 | 37.8 |
| Somewhat satisfied | 31 | 37.8 |
| Neutral | 4 | 4.9 |
| Sonewhat dissatisfied | 14 | 17.1 |
| Very dissatisfied | 2 | 2.4 |
| Total | 82 | 100.0 |

## Perceptions of Professional Preparation

"Teaching" graduates were requested to select from a list of 9 alternatives those statements which \%ere trie about their professional preparation. They could select as many statements as applied to their college education. The 81 respondents selected a total of 316 statements.

Seventy-four of the "teaching" graduates (91.4\%) indicated that student teaching was useful while only 6 graduates (3.7\%) reported that it was useless. Fifty-six respondents (69.1\%) stated that they received overall gocd preparation. Twelve gracuates (14.8\%) opposed this view by indicating that they received overall poor preparation. Approximately twothirds of the graduates ( $64.2^{\circ}$ ) reportcd that courses were useful while 9.98 thorght these courses :ere useless. Alnost one-half of the responcents (48.1:) stated that the program courses vere useful as opposed to $25.9 \%$
of the graduates who $s^{+}$ated they were useless. Finally, over tro-thirds of the graduates ( 69.18 ) reported that interacting with their fellow students was helpful.

Table 81

| Perceptions of Yreparztion | Frecuency | Percentage |
| :--- | :---: | :---: |
| core courses useful | 52 | 64.2 |
| core courses useless | 8 | 9.9 |
| program courses useful | 39 | 48.1 |
| program courses useless | 21 | 25.9 |
| student teaching useful | 74 | 91.4 |
| student teaching useless | 3 | 3.7 |
| student interaction helpful | 51 | 63.0 |
| overall gocd preparation | 56 | 69.1 |
| overall poor preparation | 12 | 14.8 |
| Total | 316 | . |

Uyrading Tachirs Effectiveness
Over one-third of the "teaching" graduates (38.2 3 ) indicated that the one factor tiat would do most to uxgrede their teaching effectiveness would be teaching "fewer or smaller classcs." S? ightly over one-fourth of the respondents (27.6\%) reported "rore lesson preparation time" was the most irportant factor. The factor, "more school support" was listed by 9 graduates ( $11.8^{\circ}$ ) as the most important factor while the factor "better professional prearation" has selected by 5 graduates ( $6.6 \xi$ ). A variety of "factors" wre reported by 12 respancents (15.8\%). These factors were categorizen wher the headirg, "other".

Table 82

| Urgrading Effectiveness | Frequency | Percentage |
| :--- | :---: | :---: |
| Smaller Classes | 29 | 38.2 |
| Better Professional Preparation | 5 | 6.6 |
| More School Support | 9 | 11.8 |
| More Lesson Preparation | 21 | 27.6 |
| Other | 12 | 15.8 |
| Total | 76 | 100.0 |

Continued on next page

## Most Valuable Librar:-icina Conter Service

Just over cne-fourth of the "teacining" graduates (26.18) incicat a that the most valuable library-media center service was, "ceveloment and production of audio-visual materials for classroom instruction." The services, "Assistance to students in developing class projects" and "development of bibliographies of center materials relevant to your own and stucients' needs in your classes" were reported to be the most valuable services offered by $7.2 \%$ and $4.3 \%$ of the graduates, respectively. Overall, almost two-thirds of the responicnts $(62.3 \%)$ stated that "the services were not valuable," "no services were offered," or that they had "no time to use the services offered by the library-media center."

Table 83

| Valuable Library-iecia Service | Frequency | Percentage |
| :--- | :---: | ---: |
| Developrent and procuction of <br> audiovisuai materials | 18 |  |
| Assistance to students in <br> developing projects | 5 | $\mathbf{2 5 . 1}$ |
| Development of bibliographies | 3 | 7.2 |
| Services not valuable | 22 | 4.3 |
| No services offer:d | 16 | 31.9 |
| No time to us | 5 | 23.2 |
| Total | 69 | 7.2 |

## Guidance Steff Availability

Over one-half of the graduates ( $57.3 \hat{\varepsilon}$ ) who were presently teaching reported that a me:ijer of their school's guidance staff was available on a full-time basis to students. Eight respondents (10.7 ) stated that a guidance counsclor was available to stuents on a part-time basis. Ga. Fance staff availability to work with parents was indicatod by 22 "teachirg" graduates (29.33). O\%ly 2 gracuates re:orter that no guidance services were

| Guidance Staif Xvailaoility | Frequency | Percentage |
| :--- | :---: | :---: |
| Available to parents | 22 | 29.3 |
| Available to students full-time | 43 | 57.3 |
| Available to students part-time | 8 | 10.7 |
| No service offered | 2 |  |
| Total | 75 |  |

Assistance with Discioline Problems
Forty-seven of the "teaching" gracuates ( $61.0 \%$ ) reported they were assisted with classroom discipline problems and that such assistance was effective. Twelve responcents ( $15.6 \frac{8}{6}$ ) indicated that help was available but only in extreme circunstances while 11 graduates (14.38) stated that assistance was available but acmission of need was viewed negatively. Only "teaching" respondents ( $9.1 \%$ ) reported that no assistance was available or that they had no discipline problems.

Table 85

| Assistance w/ Discipline Problers | Frecuency | Percentage |
| :--- | :--- | ---: |
| Assistance available | 47 | 61.0 |
| Assistance available in ex- <br> treme circumstances | 12 | 15.6 |
| No assistance available | 3 | 3.9 |
| Available but viewed negatively | 11 | 14.3 |
| No problems | 4 | 5.2 |
| Total | 77 | 100.0 |

## Supervisic. of Extracurricular Activities

Apnroximately one-half (49.38) of the "teaching" graduates indicated that supervision of extracurricular activities was completely voluntary on theix part. Twenty-two of the gracuates (30.1\%) did, however, report that such supervision was expected by their school's administrators while another 15 respondents ( $20.5 \%$ ) stated that supervising extracurricular activities was either required by their school acministrators or a condition to be mat for their ermloyment.

Table 86

| Supervision of Extracurricular | Freguency | Percentage |
| :--- | :---: | ---: |
| Voluntary . | 36 | 49.3 |
| Expected by Administration | 22 | 30.1 |
| Required by Administration | 5 | 6.8 |
| Condition of Employment | 10 | 13.8 |
| Total | 73 | 100.0 |

## Evaluation of Teaching By School Administrators

One-third of math/science graduates who were teaching reported that they were not evaluated even once by their school adruinistrator. Twentytwo respondents (28.68) indicated that they were evaluated on a single ocasion while an identical number of first year teachers stated that they were evaluated 2-3 times by school acministrators. Only 7 graduates (9.18) stated that they were evaluated on 4 or more occasions.

Tatle 87

| Bdministrators Evaluating | Frequency | Percentage |
| :--- | :---: | :---: |
| 0 times | 26 | 33.8 |
| 1 time | 22 | 28.6 |
| $2-3$ times | 22 | 28.6 |
| $4-6$ times | 6 | 7.8 |
| over 6 times | 1 | 1.4 |
| Total | 77 | 100.0 |

Fontal Evaluation of Teaching
The 48 "teaching" graduates who responded to the item concerning the fomal evaluation of their teaching had the opportunity to indicate 1 or more professionals who were responsible for evaluating their classrocm perfomance. Twenty-one of the 48 griduates (43.8\%) reported that they were evaluated by their department chairperson while one-third of these respondents stated that they were evaluated by their building principals. Nine first year math/science teachers (18.8\%) were evaluated by their students, 8 graduates ( $16.7 \%$ ) by curriculum specialists, and 5 respondents ( 10.48 ) by their teaching colleagues.

## Table 88

| Evaluation of Teaching | Frequency | Percentage |
| :--- | :---: | :---: |
| Teaching Colleague | 5 | 10.4 |
| Dept. Head | 21 | 43.8 |
| students | 9 | 18.8 |
| curriculum specialist | 8 | 16.7 |
| principal or other acministrator | 16 | 33.3 |
| Total | 88 | 100.0 |

## Means of Evaluating Teaching

Over one-half of the "teaching" graduates (53.63) reported that they used student test scores as a means for evaiuating their teaching. Over one-fourth of the respondents (28.6\%) used student feedback to evaluate their teaching and 6 first year teachers (10.78) depended on their teaching peers to evaluate their teaching. Finally, 4 teachers indicated that "student improvement" was a means employed for evaluating their teaching. Table 89

| Means of Evaluation | Frequency | Percentage |
| :--- | :---: | ---: |
| Test scores | 30 | 53.6 |
| Other teachers | 6 | 10.7 |
| Student feedback | 16 | 28.6 |
| Student improvement | 4 | 7.1 |
| Total | 56 | 100.0 |

Most Help to frotessional Develomment
Most graduates who were teaching (79.5\%) stated that their teaching colleagues were "most helpful" in pranoting their professional development. Approximately ore-fourth of the graduates (24.4\%) reported that school administrators were "most helpful" relative to their professional development. Department heads were selected as the"most helpful" people in furthering professional developtent by 11 of the math/science graduates (14.1\%). Eight graduates (10.3\%) stated that "being on their (xin" was the "most helpful" means for pronoting their professional develownent. Counselors and reading specialists also were listed as helpful people in praroting the professional develoment of the first year teachers.

Table 90

| Help for Professional Dev. | Frecuency | Percentage |
| :--- | :---: | :---: |
| Administrators | 19 | 24.4 |
| Teaching Colleagues | 62 | 79.5 |
| Dept. Head | 11 | 14.1 |
| Counselor | 3 | 3.8 |
| Being on Own | 8 | 10.3 |
| Reading Specialist | 1 | 1.3 |
| Total | 104 | 100.0 |

## Key Person tho Pxovided Support

Fellow teachers were vieved as the key people wiro provide support to first year teachers by 45 math/science graduates (62.5\%). Sixteen of the respandents ( $22.2 \%$ ) reported that adrinistrators played a supportive role. Relatives, supervisors, and counselors also were mentioned as people who provided support and encouragement to the first year math/science teachers.

Table 91

| Most Supportive Person | Frequency | Percentage |
| :--- | :---: | :---: |
| Administrator | 16 | 22.2 |
| Counselor | 1 | 1.4 |
| Fellow Teachers | 45 | 62.5 |
| Relative | 6 | 8.3 |
| Supervisor | 4 | 5.6 |
| Total | 72 | 100.0 |

Teachex Warmeh ara Closeness Versus Cotting Work Done
Approximately throe-fourths ( 72.0 ) ) of the "teaching" graduates reported that "getting work cone" was moxe important than teacher warmth and closeness.

## Table 92



Table 93


## General Comments

As might be expected, almost one-half
(48.6\%) who listed general comments stated that the math/science program was "the best". Over one-rourth of these graduates (27.0\%) indicated that the Education Foundations and Research classes were too idealistic and overlapping while approximately one-fifth of the recent graduates (18.98) comented that they did not receive enough actual teaching. Five graduates (13.5\%) stated that they need an evaluation course and/or an amministration course. Three graduates rated the Placement Service as "poor" while 2 graduates reported that they were well prepared.

Table 94

General Coments Frequency _Percentage. .
$\begin{array}{lll}\text { Science/Math Program the best } & 18 & 48.6\end{array}$
F\& R Classes are Idealistic \&
Overlapping $\quad 10 \quad 27.0$
$\begin{array}{lll}\text { Not Enough Teaching } & 7 & \mathbf{1 8 , 9}\end{array}$
$\begin{array}{lll}\text { Poor Placement Service } & 3 & 8.1\end{array}$
$\begin{array}{lll}\text { Was Vell Prepared } 2 & 5.4\end{array}$
Need and Evaluation and Administration Course 5
13.5

1. Health Education respondents perceived the krcwledge, skill, and attitude/value ( $K, S, A / V^{\prime} s$ ) items to be relatively importan'. On a scale of $1-6$, the gmand means of these items ranged frcm 4.49 to 5.46 on the "Importance" scale.
2. Respondents rated the adequacy of their preparation to perform the $K, S, A / V^{\prime}$ 's lower than the importance of the $K, S, A / V^{\prime} s$, there also was more variance in the "Adequacy" grand means. On a scale of 0-6, the grant means for the knowledge, skill, and attitude/value items ranged from 3.14 to 4.92.
3. Respondents thought that of all the content areas Health Educators teach, drugs, alcohol, and tobacoo, and human sexuality and family life were most important while the content areas, philosophy and life sciences were vievied as least important.
4. The skills which respondents thought most important were"facilitates students' understanding of controversial-health issues in a professional manner" and "presents health related infomation in an organized and clear manner"; skills viewed as least important were: "analyzes historical and philosophies developments in the sield of health education and their implications for today's health education programs" and "assists in maintaining appropriate health and safety records".
5. The attitudes/values rated by respondents as being the most inportant were: "deronstrates a concem for students" a. ${ }_{\text {a }}$ "accepts personal responsibility to stay up-to-date in the fields of health and health education by reading the professional literature and participating in educational opportunities"; "expresses a philosophy of education andclarifies
its relationship to school health education" and "supports the planned comprehensive, sequential approach to curriculum design in preference to the crisis-oriented approach" were the attitudes/values which were thought to be least important.
6. Respondents thought they were most adequately prepared to teach the content areas, "first aid and accident prevention" and "human sexuality and family life" and least adequately prepared in the areas of "death and dying" and "dental health".
7. Skills in which respondents felt that they were most proficient were: "demonstrates appropriate first aid techniques and skills", operates a wide range of audio-visual equipment", and "utilizes the services that community health agencies and personnel provide in promoting the effecitveness of the total school health program"; "assists in preparing budget items for the school health instruction program", allows for cultural differences in program planning and implementation", and "utilizes effective disciplinary strategies in managing the classroon" were the skills which the 1970-79 Health Education graduates felt least adequately prepared to perform.

8 Respondents reported that they were most adequately prepared to attain tife atittudes/values: "advocates health and health education as an important, integral means for obtaining a personally satisfying life" and "realizes the importance of possessing first aid skills" while they perceived that they were least adequately prepared to attain the attitudes/values: "demonstrates support for health oriented activit:es by assuming related supervisory responsibilities" and "supports an ecological perspective of
health and wellness".
9. Fifty of the possible 56 correlational relationships between respondents" "Importance" grand means on the knowledge items, skill items, and attitude/value items and their "Adequacy of Your Preparation" grand means on the same items were significant at an alpha level of .05 .
10. There were significant differences at the .05 level between the grand means of respondents who were grouped by selected demographic and employment related variables; these variables included "graduate degree hours © mpleted," "percentages of professional duties related to health instruction", "sex", "year of graduation", and "school health educator status." (See Hawk disscrtation in OSU Libraries for further details).

# Teacher Concems Questionnaire -- Summary 

of Results for the 1978-1979
College of Education Graduates

## Degree of Concem

Approximately one-third of the 56 teacher concern iters (33.9\%) received means of 3.50 or higher on the " 1 " (not concemed) to " 5 " (extremely concerned) scale. The item, "Whether my students can apply what they learn," was rated the highest of all items with a mean of 3.95. This item was followed by the iters, "Motivating my students to study", and "Increasing students' feelings of accomp.lishment" which received means of 3.94 and 3.92 , respectively. (See Appen.iix B for a complete list of the means for each teacher concem questionnaire item).

Seven of the 56 concem iters (12.58) received means of 2.50 or lower on the 5-point scale. Only 1 received a mean of under 2.00 (a little concerned). This item dealt with having students asking their teachers personal questions. The items, "Too many non-instructional duties at my school" and "Beccuing too personally involved with students" received low means of 2.20 and 2.29 , respectively.

## Degree of Preparation

The 1978-79 graduates were requested to indicate the degree of preparation they received relative to all but 8 of the 56 concem statements. It was felt that it was improbabie for the college of Education graduates to have received any preparation relative to these
statements, therefore they were excluded. Eight of the remaining 48 statements ( $16.7 \%$ ) received a mean of 3.50 or higher on the 5 -point scale where " 3 " was equal to "adoquately prepared". The "concerns", "The nature and quality of my instructional materials" and "My ability to present ideas to my class" received means of 3.64 while the "concems", "working productively with other teachers" and "Doing well when a supervisor is present" received means of 3.60. Two of these "concems" described in the statements for which graduates felt they were "adequately prepared" received means of 3.50 or higher on the "Degree of Concem" scale. In other words, they were prepared to cope with important "conoems". On the other hand, one of these "concems" was rated low on the "Degree of Concern" scale. This indicates that graduates were prepared to cope with a "concern" which they felt really was not that important.

Only one "concern" statement recsived a rating of less than $\mathbf{2 . 5 0}$ on the "Degree of Preparation" scale. This "concem", "Student use of drugs", received a rating of 2.32 on the "Preparation" scale and a mean of 3.39 on the "Degree of Concern" (See Appendix B for further details).

## Source of Preparation

Graduates were requested to indicate the source of their preparation by selecting one or more of the 5 following altematives: 1) "don't know", 2) "independent stuxy", 3) "inservice training", 4) "teaching itself", and 5) "coursework at OSU". The alternat es, "teaching itself", and "coursework at OSU" were indicater' by the 1978-1979 College of Education graduates as being the two majol sources of preparation. In fact, in 37 of the 48 "concerri" statements, the respondents chose
"teaching itself" as the dominant source of their preparation. In only
II statements, "coursework at OSU" was selected as the major source of preparation. In these statements "teaching itself" was listed as the second rajor source of preparation. The alternative, "coursework at OSU" was selected as a second major source of preparation for 29 "concem" statements. The rank order of the alternatives: 1) "don't know", 2) "independent study", and 3) "inservice training" varied depending on the "concem" statement. The number of graduates selecting these 3 alternatives was considerably less than the 2 discursed above.

## Teacher's Concems Questianinaire -- <br> Sumary of Results for the 1975-1979 Math/Science Graduates

## Degree of Concem

As with the 1978-1979 College of Education Graduates, approximately one-third of the 56 ceacher concem items (33.9\%) received means of 3.50 or higher on the " 1 " (not concemed) to " 5 " (extremeniy concemed) scale. The item which was the greatest concern to the 38 Math/Science graduates was, "Insuring that my students grasp subject matter fundamentals." This item received a mean of 3.97. The items, "Whether my students can apply what they learn" and "Motivating my students to study" received high mean ratings of 3.92 and 3.89 , respectively. (See Appendix C for a corplete list of the means for each teacher concem questionnaire itern).

Nine of the 56 concern items (26.1\%) received means of 2.50 or lower on the 5-point scaie. Three of these 9 items received means of under 2.00 (a little concerned). The item,"Lack oi academic freedorn" received a mean of 2.94 while the items, "Acceptance as a friend by my students" and "Being asked personai questions by my students" received identical means of 1.95 on the 5 -point scale.

## Degree of Preparation

As was the case with the 1978-1979 College of Education graduates the $38 \mathrm{Math} /$ Science graduates rated the adequacy or their preparai : on relative to 48 of the 56 concem statements. Seven of these "concem" statements received a mean of 3.50 or higher on the 5 -point scale where "3" was equal to "adecquately prepared". The item, "Inısuring that my
students grasp subject matter fundementals" received a mean of 3.68 while the item, "Selecting and teaching content well in my class" received a mean of 3.63. Both of these iters received means of 3.50 or higher on the "concern" scale. Thus, graduates were adequately prepared to cope with important "concems". This was not the case with a third item, ("Doing vell when a supervisor is present") which recieved a high rating (3.62) on the "adequacy of preparation" scale but a low rating (2.58) on the "degree of concem" scale. In other words, they were well prepared to deal with seemingly unimportant teaching "concerni." Eight of the statements ( $16.7 \%$ ) received means of 2.50 or less on the 5-point "adequacy of preparation" scale. Unfortunately, 6 of the 8 statements which were rated low on the "preparation" scale were rated high on the "concern" scale. This reant that graduates were less than adequately prepared to cope with irmortant teacher concems. The six "concems" along with their means on the "Preparation" scale follow: 1) "Challenging umotivated students I have contact with" (2.11), 2) "Student use of drugs" (2.15), 3) "Diagnosing student learning prob-" lems" $(2,21)$, 4) "Whether each stiaent is getting what he or she needs" $(2.43)$, 5) "Motivating my students to study" (2.46) and 6) "Slow progress of certain students in my class" (2.46).

## Source of Preparation

The two sources of preparation whicn were reported by the $1975-$ 1979 Math/Science graduates were: "teaching itself" and "coursework at QSU". The aiternative, "teaching itself," was indicated as a source of preparation by more respondents than any other source in 43 of the total 48 statements. In the remaining 5 statemr's, "teaching itself"
received the second greatest number of responses by the graduates. The alternative, "courserork at OSU" was selected by the greates' number of respondents for 4 "concem" statements and was viewed as the second most daninant source of preparation for 29 other statements. As was the case with the 1978-1979 College of Education graduates, the rank order of the alternatives: "don't know", "independent study", and "inservice training" varied depending on the "concem" statement. The number of graduates selecting these 3 alternatives was considerably less than the 2 discussed above. (For more detailed information on the source of graduates preparation, please contact the Follow-Up Office.)

## A Brief Sumary of Findings

In a project with as many graduates as there are at Ohio State, interviewing and visiting each one is obviously an impossibility. It was possible, however, to visit a handful of selected teachers who graduated in 1978-79, who lived in the Columbus area. By doing this the Follow-up Project added another dimension to its data. Thus, not only are mail findings presanted in this report but more personal interview kinds of findings, especially data, are also reported.

The visits were begun in February of 1980. Three persons on the Follow-up staff made the visits to a total of 12 teachers. All these teachers had graduated in the 1978-79 academic class and were presently teaching in the Columbus area. This sample was not chosen randanly, but rather was chosen in a fashion which would represent as many grade levels and different kinds of schools as possible.

## Instrumentation

Each Follow-up staff member took a packet of instrumentation with him or her when the site visit was done. On the next few pages the instrumentation is reprociuced so that the reader can see what the visit entailed. As for the observations, three dirferent kinds of observations were made. One staff member was familiar with the Hough-Duncan category system of observation and used that exclusively. Two other members used more narrative format developed by John coodlad (1970) which tended to provide a snap-shot of the classroom rather than data
categorized into behavioral categories of the teacher. Finally a third procedure was piloted, one that has been used in a field evaluation portion of an undergraduate class which required the rater to indicate by checking categories whether certain behaviors were occurring or not occurring. The results of using these three different systems was to emphasize the use of the Goodlad system in collaboration with the rating system and to deermphasize the use of the Hough-Duncan observation system.

The interview was the 1980 version of an instrument developed by the director of the Follow-up project the previous year. This year questions were added which directly related to questions that programs might have about specific parts of their curriculum for their courses. All staff members used the same interview. At the end of this section an entire interview is reproduced verbatim so that the reader will get a flavor of the mindset of a working teacher in a typical sublurban school in the Columbus area.

## Interview Findings

The first set of findings to be presented here are those of the interview.

1. Think baci, to when you first decided to choose teaching as a profession. Why did you decide to become a teacher?

Almost every response was the same for this question. Some of the vertatim responses gitren were indicative of the similarity among responses: "I always wanted to teach first grade." "I never thought about it, I was always teaching fram the time I was a little
kid." "My parents were teachers." "I liked working with children, not necessarily elementary age, just I would say any age." "I was first interested in children from the sixth grade to eighth grade, and working with them. I just decided that once I got to college, they tell you to experiment and go observe and so I really did like the younger children better, I always like teaching younger children." "I like to work with people, you can make more of a difference here than you can in some other professions." "I love education,. i like learning myself and if I had the opportunity I would have spent more years in college." "Both of my parents were teachers, I never considered doing anything else." "I always wanted to be a teacher, I had Future Teachers of America in High School and that's when I decided to work with special children." "My mother was a teacher, and two teachers in Junior High really influenced me."

There seems to be one or two major reasons why people choose education but whether the reason is that cheir parents were teachers or that they just always wanted to be a teacher, each person had decided before he or she started their college career that education was their field of choice. These data are congruent with data gathered last year when a similar cquestion was asked on site visits. Again, most of the people had known before they started ollege that they wanted to major in education.

## 2. Did you consicer other program areas?

Almost every person considered some other program area than the one they graduated in, whether it was in the education department itself or in another department on campus. The trend was most prevalant among persons who finished in Elementary Education who either could not
get into another program or carefully looked at two or three others before deciding on Elementary Education. Some of the programs that were looked at were Health Ed. (from a person who graduated from Physical Education), Math Ed. (from a person that finished in Special Education), Biology and Pre-Med (from a person who finished in Secondary Math Education), and Exceptional Children (from a person who finished in Elementary Education). Three of tre 12 teachers said that they would have majored in special Education if the entrance requirements hadn't been so restrictive. All three of these teachers chose Elementary Education for their major.
3. Based on your teaching experience, how satisfied are you now with your overall preparation at OSU?

As can be seen by Figure 1 , which gives an indication of each person's overall feeling about his or her preparation, opinions ranged from totally dissatisfied to campletely satisfied with the preponderance of responses falling into the positive category, that is; seven of the people responded with generally positive caments, three responded with ambivaient feelings about their college preparation and one person was quite dissatisfied. One of the comments most heard from respondents was that no matter how much they valued their training at OSU most of what they now practiced was learned on the job. This is not sumprising given the fact that classroan teaching is a very practical application of college preparatior. However, this fact seemed to surprise many of the teachers, who were disturbed when they first entered teaching that they didn't know everything they needed to be successful on the first day.
4. Louking back would you went the program to be more practical or more theoretical?

Respondents were unanimous in answering this question. As it is easy to guess, every respondent said "more practical!". In keeping with Fuller's stages of the beginning teacher, most of these pecple seemed to be concerned with surviving the first year, and having the benefit of a more practical experience with more field training appealed to all of them.
5. Can you think of areas that were neglected or overemphasized in your program?

The responses for this question were: "Practices about discipline were neglected." "I thought they spread things out pretty well except for the planning of objectives. They also emphasized open classrocms." "I think there should be more field prectice, more coursework out in the field where you work with students, with the teachers and in the schools. I was told that there was one program, an intemship I believe, I found out about it accidentally just after I graduated, I probably would have exte.ded my time there and gone through the internsnip if I had known about it." "Yes, ways to motivate and discipline students. Overemphasized the fact of treating each student as an individual, I do this anyway." "They need to explore, when you go to different schools where something is tolerated and something is not tolerated, that was a concern of mine that wasn't answered; even review exactly what law applies in what states or even different counties because most of the teachers are going to go back out to scme county in Chio." "One thing that was neglected was dealing with problem kids,
bully and shy kids, kids like that." "I can't think of anything, they just need to make the program more practical."

As can be seen by these sample comments the responses varied but it appeared that there was no general feeling about aspects that were either neglected or overemphasized. Each respondent seemed to have his or her own personal "pet peeve".
6. No preparation for any job is ever perfect, was there any part of teaching that caught you completely by surprise after you began your employment?

Again, direct quotes is probably the most useful way of capturing the flavor of the aspect of teaching that most surprised the "urelve people that answered this question. "Yes, it's important for teachers coming out of OSU that they can't teach the way they want and the overload is part of the teaching job. By that I mean bookkeeping, classroom size, limited space and overabundance of everything to do." "I think it's so much of a work load, everything you have to do, the lesson plans, all of that stuff, papers to grade, giving tests, then your duties, then your meetings, then your workshops, and then meeting with parents. So much time is taken cut, that is samething that really surprised me, how much time it involves." "Well I don't know if other school districts face this but I'm sure they do, there's alot of legalities involved. It seems that principals cannot do certain things unless they follow certain procedures consequently I just can't take somebody dam and say do this and do that because the person disrupted my class, threw a paper-wad at me or whatever, I just wasn't really prepared for the discipline. I had farrous advice to teachers to start being hard and then let off at the end of the year but I
didn't believe it, I figured, you know, I would just work on the concl. is I had learned there at school, it just didn't work. I'll give you an example, I picked up one boy in the hall, he was not only having a hard time walking, he was having a hard time seeing where he was going, I smelled aloohol on his breath. I took him to the office and explained to them what had happened and a half hour later when I was back in class one of the vice-principals came up and said they were not going to do anything to him, no punishment and no reprimand at all, they allowed him to remain in school. The reason being for this is that he had always been in trouble, he had just gotter. out of the DH (a junvenile delinquence home) and they decided that if they punished him now it wouldn't do him any good. I was totally unprepared for that. I hadn't even expected to find sucn problems in school in terms of alcohol and drugs, it's really prevalent here, a big problem, I never expected that."

These three or four quotes point out the complexities of teaching and the fact that it's difficult to prepare a teacher for this conplexity by coursework training such as any university program consists of. Almost every respondent made sane mention of the complexity and overload attendant with teaching. Whether or not increased field experience in keeping with the new State Code for Education in Ohio will alleviate this problem or not seems debatable. Yet most of the teachers that were observed seemed to be managing quite well in their position. Perhaps this is sirmly a form of culture shock of persons entering the profession which is unavoidable.

Summary
Complete responses to all the questions on the interview form can be obtained through the Follow-up office at The Ohio State University. This section has attempted to give an overview of the feeling and the attitudes and frustrations of the first year teacher who had just graduated fram Ohio State. Overail most teachers agree that the College of Edication is doing a fine job preparing them for what can be prepared for. What does come out of these conversations is that there are many parts of teaching for which college preparation leaves one urprepared. These teachers realize that only by teaching could one gain that kind of knowleage. Most surprising to these teachers was the amount of work involved in teaching, the long hours, the moltiple tasks one is expected to do simultaneously, and the constant overload teaching engenders. Yet, as mentioned before, all these teachers seem to be cuping well with their classrocms.
E.gure 1

THE TEACHERS WHO WERE VISIIED HAD THESE CHARACIERISTICS:

| Teacher | Grade | Progran at OSU | Overall feeling about preparation | most concerned about: |
| :---: | :---: | :---: | :---: | :---: |
| 1 | $\begin{gathered} 4 \\ \text { (urban) } \end{gathered}$ | El. Ed. | "dissatisfied" | challenging unmotivated students; students who disrupt classes; maintaining class control |
| 2 | ID tutor7th grade (suburban) | Eng. Ed. | College of Ed needs "to offer more methods, classroom management courses"; "Reading methods were especially poor" | motivating students; lack of instructional materials; diagnosing student learning problems; student use of drugs; slow progress of some students in class |
| 3 | $\begin{gathered} \text { 2nd~ } \\ \text { (urban) } \end{gathered}$ | El. Ed. | overall good job preparing me to teach, the foundations courses were a waste of time | maintaining class control; poor quality of materials; diagnosing learning problens; meeting each student's needs; politics of dealing with other teachers |
| 4 | $\begin{gathered} 9-12 \\ \text { Vocational } \\ \text { Ed } \\ \text { (rural) } \end{gathered}$ | Distributive Ed. | "Voc-Ed did a great job preparing me. Mainly because my supervisor was so great." | discipline; motivating Voc-Ed students who are just waiting to quit school; becoming like other teachers who con't do anything. |
| 120 | Micdle Elem. (Catholic) | El. Ed. <br> (EPK) | "I never appreciated my Education while I was getting it but I highly appreciate it now. Many times I felt Ed. classes weren't preparing me for teaching but now I see they were." | dealing with problem kids like bullies, shy Kids, etc; overload or the job; all the bookkeeping <br> 121 |

TEACHER CHARACTERISTICS (cont'd)

| Teacher | Grade | $\begin{aligned} & \text { Program } \\ & \text { at } \\ & \text { OSU } \\ & \hline \end{aligned}$ | Overall ieeling about preparation | most concerned about: |
| :---: | :---: | :---: | :---: | :---: |
| 6 | $\begin{gathered} \text { 3rd } \\ \text { (suburban) } \end{gathered}$ | El. EA. | generally quite satisfied | the surprise of such a heavy workload; making like the student is leaming; lack of instructional materials |
| 7 | $\begin{gathered} \text { 9-12 } \\ \text { Math } \\ \text { (suburban) } \end{gathered}$ | Math. Ed. | "student teaching was the high point of ny preparation, methods courses do not help in my day-to-day teaching. Communication across the college is especially bad." | knowing if the students understand; motivating students; all the noninstructional duties at ny school; student use of drus.s. |
| 8 | $7-9$ <br> English Literature (suburban) | English Ed. | "I wouldn't go anywhere else to get an education, but view of OSU is too idealistic, not pragmatic enough." | motivating my students; maintaining class control; being impartial toward students; working with too many students each day; chronic absenteeism; student use of drugs |
| 98 | $\begin{gathered} \text { lst } \\ \text { (suburban) } \end{gathered}$ | El. Ed. | Foundations courses were a waste of time, first 3 years were useless, but the senior year (methods, students teaching) were useful. "Tried to shove the open classrocm down ny throat!" | meeting each child's needs; whether students are leaming; selecting and teaching content in classroom; evaluating my students' progress; slow progress of same of the students in my class |

TEACHER CHARACIERTSTICS (cont'd)

| Teacher | Grade | $\begin{gathered} \hline \text { Program } \\ \text { at } \\ \text { OSU } \\ \hline \end{gathered}$ | Overall feeling about preparation | most concerned. about: |
| :---: | :---: | :---: | :---: | :---: |
| 10 | intermediate Special Education | Excep. Children | "Although courses in Special Ed. were very good, there was too much stress on behavior mod and not enough on practical teaching strategies." | teaching kids what they need to know as an adult; increasing students' selfworth; motivating students; lack of materials; meeting the needs of each student; disruptive students. |
| 11 | PE 7-12 <br> (nural) | Phys. Ed. | "My student teaching was very useful, I was really well prepared but still leamed $\frac{1}{2}$ of what I know fram on-the-job training. Ed. 435 was a great class." | reaching students so they really care; dealing with students who refuse to learn; evaluating students' progress. |

## A Procedure for Checking the Generalizeability of the Survey Pesults

As is the case with most survey research, not every person in the population of 943 first-year graduates responded to requests for information. And, since the returns received were not randan, there was the question of how generalizeable the results were to the entire population.

A relatively simple procedure was used to reject the hypothesis that at the .05 level, there was a statistically significant difference between the responses of the voluntary respondees and the population. First, a rancom sample of 20 persons was drawn from the group who returned questionnaires, and a sample of the swne size was drawn from the population. From the first group, responses to the questions on the demographic/professional questionnaire were obviously available. Fron the second sample, answers were available for only 12 of the 20 persons. The second step, then, was to locate the eight persons who had not responded to the questionnaire. These eight persons were fortunately located, and administered the questionnaire over the telephone. The information from these eight persons was added to the population sample findings, and responses on three questions were compared for differences between samples. A simple statistical test ( $t$-test) performed on the means of each pair for each question showed no significant differences between pairs.

Thus, there did not seem to be any systematic variance working in the group who voluntarily responded to the derographic/professional questionnaire. With a high degree of confidence, then, it seems justifiable to assert that the "returns group" is representative of the entire population.

## Appendix B

Means of College of Education Graduates

Number of
"Concern" Statement
1

2

3

4
5
6

7

8

9
10
11
12
13
14
15

Degree of Concern (Mean)

Degree of Preparation (Mean)
2.98
3.20
3.50*
3.23
3.35
2.65
3.92*
3.26
3.69*
3.64*
3.46
3.50*
2.98
2.94
3.61*
3.38
2.39**
2.99
3.27
2.50**
3.54*
3.18
3.33
2.45*
3.11
3.65*
3.22
2.97
3.60*
3.64*
2.24**
3.38
3.35

Degree of
Concem (yean)

Degree of Preparation (Mean)

| 24 | 3.66* | 2.53 |
| :---: | :---: | :---: |
| 25 | 3.37 | - |
| 26 | 1.92** | 3.42 |
| 27 | 2.20** | - |
| 28 | 3.76* | 3.50* |
| 29 | 3.03 | 2.89 |
| 30 | 3.78* | 2.76 |
| 31 | 3.08 | 3.39 |
| 32 | 3.45 | 3.22 |
| 33 | 3.95* | 3.39 |
| 34 | 2.64 | 3.33 |
| 35 | 3.78* | 3.14 |
| 36 | 3.65* | 2.12** |
| 37 | 2.78 | --m |
| 38 | 3.22 | 2.84 |
| 39 | 3.18 | 3.13 |
| 40 | 2.93 | 3.38 |
| 41 | 2.34** | 3.50* |
| 42 | 3.26 | 2.56 |
| 43 | 3.40 | 3.14 |
| 44 | 2.78 | 3.18 |
| 45 | 3.39 | 2.32** |
| 46 | 3.40 | 3.06 |
| 47 | 3.60* | 3.16 |

128

Number of
"Concern" Statement stater

Degree of Concern (\%ean)

Degree of Preparation (Mean)

| 48 | 3.26 | 3.32 |
| :--- | :--- | :--- |
| 49 | 3.35 | 3.17 |
| 50 | $3.67^{\star}$ | 3.02 |
| 51 | 3.28 | $3.64^{\star}$ |
| 52 | $3.74^{\star}$ | 2.79 |
| 53 | $3.80^{\star}$ | 3.02 |
| 54 | $3.52^{\star}$ | 3.29 |
| 55 | $3.52^{\star}$ | 3.29 |
| 56 | $2.57^{*}$ | 3.41 |

*Mean equal to 3.50 or higher. **Nean equal to 2.50 or lower.

## Appendix C

5

Means of Math/Science Graduates

Number of "Concem" Statement

Degree of Concem (Mean)
3.22
3.17

1
2
3
4
5
6
7

8

9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
2.89
3.16
3.69*
3.63*
3.11
2.94
3.62*
2.08**
3.73*
2.92
3.47
3.54*
3.32
3.50*
3.89*
2.46**
2.82
3.45
3.05
2.05**
2.63
3.30
2.33**
3.30
2.05**
3.34
3.55*
3.38
1.95**
2.89
3.72*
2.58
2.58
3.62
3.54*
2.76
3.58*
3.31

| 24 | 3.68* | 2.21** |
| :---: | :---: | :---: |
| 25 | 2.83 | - |
| 26 | 1.95** | 3.38 |
| 27 | 2.56 | -- |
| 28 | 3.97* | 3.68* |
| 29 | 3.14 | 2.80 |
| 30 | 3.60* | 2.11** |
| 31 | 3.34 | 2.97 |
| 32 | 3.38 | 2.89 |
| 33 | 3.92* | 3.22 |
| 34 | 2.47** | 2.87 |
| 35 | 3.73* | 3.20 |
| 36 | 3.76* | 2.57 |
| 37 | 2.46** | -- |
| 38 | 2.70 | 2.14** |
| 39 | 3.11 | 2.73 |
| 40 | 3.11 | 3.27 |
| 41 | 3.27 | 3.53* |
| 42 | 3.32 | 2.42** |
| ${ }^{13}$ | 1.94** | 2.97 |
| 44 | 2.62 | 2.78 |
| 45 | 3.63* | 2.15** |
| 46 | 3.05 | 2.81 |
| 47 | 3.56* | 2.81 |


| Namber of <br> "Concem" Statement | Degree of <br> Concern (Mean) | Degree of <br> Preparation (Mean) |
| :---: | :---: | :---: |
| 48 | 2.97 |  |
| 49 | 3.31 | 2.97 |
| 50 | $3.71^{\star}$ | 3.17 |
| 51 | 3.41 | $2.46^{\star \star}$ |
| 52 | $3.81^{\star}$ | $3.51^{\star}$ |
| 53 | $3.64 \star$ | 2.54 |
| 54 | 3.32 | $2.43 \star \star$ |
| 55 | 3.38 | 3.40 |
| 56 | 2.51 | 2.69 |

* Nean equal to 3.50 or higher.
**mean equal to 2.50 or lower.


[^0]:    **********************************************************************

