

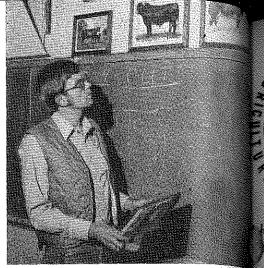
A successful crop of soybeans is measured by FFA Cowden-Herrick, Illinois chapter members (from left) Stan Collins, Tim Summers and Jim Shaffer, chapter advisor. The crop was planted using an Allis-Chalmers series 300 NO-TIL planter. Finding meaningful summer employment for young people has become a traditional problem in many areas. The Cowden-Herrick FFA chapter recognized the problem. They decided to gain experience by custom planting minimum tillage crops as a money making venture for the chapter. They reasoned that if farmers were running late, they would want to get into the fields quickly when good weather came. For this reason, farmers might be willing to try minimum tillage farming and double cropping without actually investing in a planter. By season's end, the chapter custom planted 1,218 acres. The result was so successful that the group plans an expanded operaton for 1974. (Photos from Dick Stark, Allis Chalmers)

## Stories in Pictures

by Richard Douglass



Vo-Ag, Connecticut style, includes production horticulture. Shown above are (L to R) Gregg LeBlanc, Denis Ricard, Lynn Bristol and Instructor James Dick. The E. O. Smith Regional High School is a laboratory school for the University of Connecticut. (Photo by Paul Rohacik and submitted by Dr. Al Mannebach, University of Connecticut)



Generating an interest in Livestock Productowas one of this new teacher's goals. Mr. Rona Engelke, one of Aurora's (Nebraska) Vo-Ag structors, used pictures from various breed sociations. The "original" frames were constructed a cooperating industrial arts class. (Photo Richard Douglass)



Members of the Canal Winchester (Ohio) Your Farmers Association participate in tours and fle trips to supplement the classroom education pr gram. Such events are many times one of the year's highlights. (Photo from the Canal Winchester, Ohio Young Farmer Chapter)



SHOP TIP—Mr. Dennis Kahl, Wood River, Ne braska, recommends household oven cleaner remove the gum and burned-on particles from sublades. He also recommends getting the sharpened before additional use. (Photo by Ridard Douglass)



# Agricultural Education

May, 1974

Number 11



Theme—SUMMER ACCOUNTABILITY

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## Agricultural **Education**



No. II



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#### COVER PHOTO:

The Good Ole Summer Time — means a lot of work for vocational agriculture teachers. Learning about agriculture shifts into high gear during the summer. Teachers must plan each day carefully if they are to accomplish all the tasks. The impact of personal visits to each student will be felt through the year. (photo from Dean Prochaska, Ag. Ed. Director, Kansas Department of Education.)

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## Martin B. McMillion

The twelve-month contract for all vocational agriculture teachers after enduring throughout the history of federally supported vocational agriculture, has been weakened recently. The term "extended contract" has become part of the vocabulary of supervisors in several states.

Editorials\_

From Your Editor ... TWELVE-MONTH EMPLOYMENT

Only after the beginning of the "age of accountability" did the elevenand twelve-month contract start experiencing inroads, but those inroads were not entirely the result of the search for

accountability. The variety of agricultural programs, some of which have a greater requirement for twelve-month teachers than others, was what permitted the leak in the dike of uniersal twelve-month contracts. The increased number of teachers in each department was also a contributor. The production agriculture programs did and can endure as eleven, and twelve-month programs and so can most of the other agricultural programs.

Without the tight-money situation, every teacher of Vocational Agriculture, even the career exploration teacher, could, with some imagination and effort, plan a summer morram which would give a school district a good return for the money spent; but when we are asked to accomplish more for less, priorities must be considered. Our sincerity in being accountable will convince nobody if we insist without thought or question that one hundred percent of all emplaces connected with vocational education in agriculture \* employed twelve months a year. Demonstrated sincerity

in being accountable requires that the twelve-month contract be at least considered a subject for debate.

LONGER FOR EVERYBODY

Ideally, every teacher would have a twelve-month contract and we would meet our accountability obligation by doing more on a fixed number of weeks and salary, but we must look also at the option of accomplishing a high percent of important things on less weeks and salary as another approach to achieving accountability.

Some people in the profession have advocated splitting job roles in such a way that each teacher would have equal justification for being employed in the summer. If twelvemonth contracts are still the rule in a state, it only makes sense to share the load in the summer. If the universal twelve-month contract has already been lost, then specialization in more natural and less diverse job roles seems to be the most reasonable and efficient.

Certain of the job roles will justify more summer work than others. Perhaps some job roles will be classified as requiring less than twelve months employment. Full-time teachers of shop subjects seem to be likely possibilities.

The shorter contract would have some advantages. Retention of teachers could be enhanced by the availability of less than twelve-month contracts. The former teacher of agriculture who now teaches biology in order to farm in the summer perhaps could have been retained in the profession. Yearly industry experience would be a natural result of the shortened contract. Industrial education teachers normally work in a related trade or industry during summers, and the same could occur in the case of teachers of agriculture.

ACCOUNTABILITY—A MUST FOR

(Concluded on next page)

**PROGRAMS** 

## Guest Editorial

James E. Dougan Assistant Director of Vocational Education Agricultural Education Service, Ohio



James E. Dougan

Accountability seems to be the word on the tip of the tongue of every citizen in the United States today. We in education and especially in Agricultural Education must be keenly aware of our responsibility to the public to allow them to know that we are achieving the results which they expect from our programs and which have been defined as essential to our program.

people are quickly moving from a rural to an urban In a society in which a majority of thing, it is urgent that we prepare and implement a comunications program which will keep the lay public, boards education, school administrators, and even our own clien-

tele informed of the type of vocational education program necessary to nurture an agricultural industry producing in abundance the food and fiber and service needs of a nation, and even the world, at a cost equal to or below the cost possible anywhere else in the world. We in Agricultural Education are responsible for the training of a vital segment of today's youth and adults to carry out the role of agriculture in the years ahead.

**QUALITY SUMMER** 

There is little question that we have been successful as measured by our accomplishments in the past. However, with a majority of our population today lacking a background of truths based on an agrarian upbringing, we must adopt a communications program that will not only permit, but will insist that the lay public know that agriculture is a

(Concluded on next page)

#### From the Editor . . .

The shorter contract has disadvantages. Once the universal twelve-month contract is compromised, it may be difficult to hold twelve-month contracts for at least 85-90 percent of vocational agriculture teachers. Attendance at conferences and workshops would drop considerably if the teachers were not paid while they attended. Even if they were paid, they might be reluctant to take time off from their summer jobs.

I do not advocate less than twelve-month employment in agriculture teaching. Because less than twelve-month contracts are a fact of life in a number of states, we must at

### Guest Editorial . . .

basic industry; it is seasonal in nature; it is the production, processing, and distribution of food and fiber, including the attendant services. They must understand that individuals entering and advancing in an agricultural occupation must be provided with knowledge and performance skills and abilities, many of which occur only during the summer months; so our instructional programs must continue throughout the year. The instructional program which occurs during the summer months in vocational agriculture is an area in which we receive a majority of the questions directed to us on accountability. The following guidelines will assist in developing a rationale upon which to build a quality summer program:

- 1. All available students must be involved in the summer program.
- 2. The majority of the teacher's time must be spent on related instruction and the supervision of the students' occupational experience program.
- 3. The educational program conducted during this time must be essential to the students in achieving their occupational goals.
- 4. The instruction and student experience cannot be obtained during the regular school term.
- 5. The instruction and performance skills and abilities experienced by the students must be essential to the success of their entry into the occupation for which they are being prepared.
- 6. The instruction and supervision of the students' occupational experience program must be conducted by a competent teacher.

Our sincerity in being accountable will convince nobod we insist without thought or question that one hundred cent of all employees connected with vocational educa in agriculture be employed twelve months a year.

least think about the possibilities and consequences, I not accept the obvious hypocracy of being in favoreconomic accountability and also being unwilling to do or concede anything concerning the twelve-month contents.

To assist in determining which skills and abilitian essential, and which occur only during the summer more a task analysis is necessary. Teacher educators, state and visors, teachers, and local advisory committees all have responsibility and can assist in obtaining a task analyse each of the occupations or cluster of occupations for the major instructional programs are designed to train dents. A task analysis to validate and update each of instructional programs is an essential element which we no longer afford to be without in Agricultural Education we are to be accountable.

The local teacher needs the guidance of teacher electors and state staff in utilizing an advisory committee assist in determining what should be included in the institutional program which will occur during the summer more than the proposed summer program should be submitted to school administration by June 1st of each year. Any char or adjustments should be reported at once. It should into the related instruction to be provided, the supervision the students' occupational experience program, field the demonstrations, activities essential for continuing the program of activities, placement and follow-up of gradual adult education, in-service training, office schedule, wo-ag teachers' conference, and a well-earned vacation.

It is desirable for the vo-ag teacher to prepare a summary of the accomplishments during the summer submitted to the school administrators by September 6 each year. The advisory committee, through the admittion, should release the report to the public.

A planned summer program stating the services provided, for how many, by when, will provide the according ability that is being requested by people who are genu concerned about our program.

## SUMMER SCHOOL IN OFF-FARM AG.

Hilding Gadda Teacher Education South Dakota State University



Hilding Gadda

How does a vo-ag instructor bring about a recognition that vocational education in agriculture should be provided for all agricultural occupations and not be limited to production agriculture? It is disquieting to note that, particularly in the predominantly production agriculture states, instructional programs in the off-farm agricultural occupations are not provided commensurate with the needs, at least at the secondary level.

No doubt there are a number of factors contributing to this situation, such as the persistence of single-teacher programs, the multiplicity of duties of agriculture instructors, and the apprehensions associated with trying something new and different. We need somehow to make "believers" of more traditional production instructors. The purpose of this article is to indicate how a program of off-farm agricultural occupations preparation can be implemented during

Frequently schedules, responsibilities, enrollments and other factors make it extremely difficult to program instruction in off-farm agricultural occupations during the school year. Accordingly, a real case can be built for doing so between termination of school in the spring and the beginning of the fall term. This is the time when occupational activity is normally greatest in agricultural supply, products, resources, mechanics, horticulture, and forestry occupations. It necessarily follows that occupational experience as a part of such a program conducted in the summer would be very effective, with some exceptions of course.

The summer program here proposed is characterized by the following salient features:

- 1. A two-month program June and July, or July and August (A combination of the two could also be utilized.)
- 2. A two-hour class in related instruction daily, 7:30 a.m. to 9:30 a.m., five days per week for eight weeks
- 3. Students on occupational experience, 10:00 a.m. to 6:00 p.m. six days per week for eight weeks. This could be extended to the full summer provided instructor supervision is similarly extended.

4. One supervisory visit per week to each student at his training station by the instructor

It will be noted that the summer off-farm program detailed above provides 80 hours of class instruction and at seast 336 hours of occupational experience. Flexibility must be exercised in making the program practical and effective. Such time durations for class instruction and actual occupational experience compare very favorably with corresponding time durations customarily found in most full-year programs

Off-farm occupations preparation can be implemented during the summer.

conducted during the academic year. Some instructors are using this program format or some variant thereof, and are finding it to be workable and effective.

The rationale underlying this approach to preparation for off-farm agricultural occupations includes the following very perceptible advantages:

- 1. It is workable in both single-teacher and multiple-teacher programs.
- 2. The likelihood of placing students for occupational experience is enhanced in the summer.
- 3. The students' occupational experience time is more continuous and concentrated in the summer, and less subject to interruptions.
- 4. This approach alleviates the difficulty of scheduling such a program during the school year when schedules and other factors prevent instructors from providing it.
- 5. It provides a structured time schedule for the instructor's efforts in the summer, thereby utilizing his time to best advantage and enhancing his image in the community.
- 6. It allows time for the instructor to provide on-thejob supervision for such learners, as well as on-farm supervision of other students where necessary. Time for other summer duties is still available.
- 7. It allows more time for travel to training stations in cases where work stations in neighboring communities need to be used due to a lack of them in the community where the program is centered.
- 8. It brings prestige to the entire program, school, and instructor.
- 9. It provides for occupational training needs to be met in situations where those needs would otherwise go unmet.
- 10. It contributes to a closer working relationship between the vo-ag program and the entire agricultural industry in the community.
- 11. It provides for a more complete utilization of the vo-ag facilities.

One of the most incessant problems of the agriculture instructor is that of establishing priorities of things to be done. The program here detailed deserves high priority in a good many agricultural communities. Even in a strong production area, an effective off-farm agricultural occupations program is a must. The reason is that virtually all off-farm agricultural enterprises service production agriculture in one way or another. This is accountability.

## Themes For Future Issues

June — Administration and Supervision
— Local to National

July — Program Planning and Evaluation

August -- Teacher Education

September — School Organization and Articulation

October — Instructional Technology

November — Improving the Profession — Job and the Teacher

December — Better Teaching and Learning

## Are Summer Programs in Jeopardy?

F. J. Doering Head Consultant, Agriculture Education Madison, Wisconsin



happily, we are expecting to maintain F. J. Doering this position. Recognizing, of course, that our position weakens as an increasing number of states adopt different policies.

Are summer programs in vocational

agriculture in jeopardy? Frankly, this writer is worried at what may very well

be a national trend. In discussions with

state supervisors from fourteen states re-

cently, only five maintained a mandatory

position on a twelve-month contract for

the instructor(s). Wisconsin is one of

the states with this requirement, and

The summer program is vital to a good program in vocational agriculture. This has been known since the inception of the program. Such notable leaders as L. M. Sasman, J. A. James, John May, and others, were instrumental in developing the twelve-month program in Wisconsin. Our efforts will be devoted to carrying on the excellent programs these men developed.

With this thought in mind, the State Advisory Committee for Vocational Agriculture in Wisconsin has recently developed and received approval on a position paper dealing with the extended contract in vocational agriculture. The major provisions of this paper can be summarized as follows:

1. The agriculture instructor be hired on a continuous twelve-month contract, with provisions for vacation based on the policies followed for other twelve-month professional employees.

2. Whenever enrollment in a vocational agriculture department exceeds 90 students, consideration be given to the employment of additional staff. An extended contract would be given to additional instructor(s) on the basis of one day's time for each two students above the 90 enrolled in vocational agriculture.

3. A teacher on extended contract should be allotted sufficient time to participate in all vo-ag youth organization activities, and the one week vo-ag inservice program.

4. Substitutes for the instructor, for the extended summer program, must be approved by the Department of Public Instruction.

5. The above standards are considered to be minimums and most local schools would find it beneficial to exceed these recommendations.

The vocational agriculture (agribusiness) enrollment in Wisconsin, as in most other states, continues to expand. Records have been broken every year for the past decade and currently rests at 24,427 students — a forty-eight percent increase in that period of time. It is no secret that most of this growth came from the increased offerings to urban

It is disturbing to find the number of dan devoted to student visits declining.

students. With the advent of urban programs our su extended contract problems have multiplied. An al common concern is, "what can an agriculture instr possibly do in the summer in a city program?" The sinu has not changed and the question should logically re-phrased, "how can an agriculture instructor find en time to do all the things necessary for a good summer gram in a city school?"

With the school year increasing in length, a pre has been placed upon the instructor's time during summer months. Close scrutiny of the school calend Wisconsin indicates only 52-59 working days are aw to the instructor during the period of his extended cor When we examine the summer schedule some interobservations can be made:

1. Summer Program — 52-59 days available a. Two weeks vacation for instructor ..... b. FFA State Convention (June) ..... c. Summer Conference (July) ..... 2. Other activities for summer program a. Local and county fairs .....

d. Farm Progress Days ..... f. FFA Camping Trip ..... Junior Dairymen's Convention and Dairy Show Experimental Station Field Days .....

\*i. Summer school .....

\*Four week session in which instructor relinquishes his two week one week of summer conference, therefore, only five days are a from the local program.

Unless the instructor plans carefully for his su activities, he may well run out of time without having those things recognized as being vital to the program, in ly, student visits on the occupational experience pro-It is disturbing to find the number of days devoted 10 dent visits on the decline. In Wisconsin, the number of devoted to student visits averages eighteen days, range is from 6-37 days. Certainly this indicates a careful planning on the part of some instructors.

A multitude of studies have indicated the value summer program in vocational agriculture. Our fine aid to schools must reflect this well-established fact. In consin, aid is available on summer salaries through

(Concluded on next)

## Planning Summer Programs

Doug Davidson Teacher of Vocational Agriculture Reed City High School Reed City, Michigan

Much has been written about the added expense of summer programs. Each school has to determine if it is setting its moneys' worth. The more information that we as teachers can provide, the easier it is for boards of education and school administrators to decide that they are indeed getting their moneys' worth. This article is written in an outline form. I am offering some suggestions for planning and communicating what is done during the summer. Each reader can fill in the blank spaces with strategies and data unique to his program. I am sure little of this is new to anybody but maybe it can be reviewed quickly and can serve as a reminder of what can be done.

#### PLAN

Planning comes first. Since the hours of employment during the summer are limited, I need to select the most apportant activities to spend time on.

- 1. Identify all possible activities such as farm visits to 120 students, in-service workshops, leadership training camps, etc.
- 2. Estimate the amount of time which may be required for each activity, for example attending a 1½ day leadership training camp with FFA officers requires about 25 hours of active duty.
- 1. Select the most important activities and review the

Doering-from previous page)

federal and state funding. The latter is based on the instuctor's student contact hours. In the less affluent areas of the state, costs of the summer program are minimal.

Our summer programs will continue to exist so long we have hard-working, dedicated, and well-organized intructors, who keep the administration, boards of education, and the public informed of their activities. Cooperative eduprograms must expand. They will be particularly valuable to the twelve-month employment of the instructor the urban situation. Summer programs will experience problems if we continue to meet the needs of the individual student and the community in which the program list of possibilities with the students who will be involved, the advisory committee, and the school administrators.

4. Submit your proposed activities with dates to the school administration and board before June.

#### EXECUTE

Next, carry out the proposed activities. Be flexible but try to accomplish what you set out to do.

- 1. Submit written reports of your activities, results, hours, and mileage weekly to the administration.
- 2. Consult with administrators informally throughout the summer to keep them informed.
- 3. Prepare news articles to help keep the public informed.

#### REPORT

After the summer is over you are still not done.

- 1. Summarize accomplishments and weeks and hours worked. Submit these to the advisory committee, school administrators, and the school board.
- 2. Appear before the board and report in person with slides early in the fall. Show how your summer activities relate to your school-year goals. Was it an extension of the school year?

#### REVISE

Now its time for a little evaluation. Process the feedback you had from the groups mentioned and:

- 1. Look at those activities which were unproductive. Improve them or eliminate them from next years'
- 2. Go back to the PLAN paragraph and get ready for another successful summer program.

If what you do in the summer meets the needs of your students and you can show that it does, then the future of the summer program depends on the people who pay for it. How can they turn it down?

## HOW IMPORTANT ARE SUMMER PROGRAMS?

Ted Gregg Supervision California



Ted Gregg

months.

Summer programs have traditionally been one of the most important segments of the total Vocational Agriculture program. Provisions were made for summer supervision under the Smith-Hughes legislation, and currently summer supervision is included as a special standard for agriculture in the California State Plan for Vocational Education.

Summer programs are so vital to Agricultural Education because so many of the essential learning activities occur during the summer

The practice of employing agriculture instructors on a twelve-month basis was not questioned for many years. However, because of tight budgets and a few outdated summer programs, many districts are carefully examining these summer activities and in some cases the programs have been cut back.

Because of this potential threat, we should examine our summer programs and question our summer activities in light of today's needs.

#### What are appropriate activities for a summer program?

Appropriate activities for agriculture instructors during summer months might include:

- 1. Visiting all incoming freshman students enrolled in Vocational Agriculture. Explain the program to the student and parents. Explain:
- a. Supervised occupational experience.
- b. FFA as an integral part of the instructional program.
- c. Curriculum.
- d. Program planning leading to occupational goals.
- 2. Visiting all continuing students at least three times. a. Provide assistance on the supervised occupational
- experience program. b. Assist the parents and student to set an occupational goal and plan a program that will lead to
- c. Keep parents and students informed on the summer activities and accomplishments of the agricultural program.
- 3. Supervising students at fairs and shows.
- a. Remember that the behavior of your students and the quality of their exhibits will serve as a showcase for your department.



FFA Summer Luncheon Honoring Legislators (left to right) semblywoman March K. Fong, Ted Gregg, and State FFA Office.

Summer programs based primarily on de veloping lesson plans and repairing sho equipment are in my opinion open for criticism and are in jeopardy.

- 4. F.F.A. meetings and activities.
- a. Summer is an ideal time for FFA camping barbecues, swimming parties, etc. These su activities provide a perfect opportunity to de a strong positive relationship between teachers student.
- 5. In-Service Training.
- a. Summer conference.
- b. Skills Week.
- c. Sectional and Regional teacher planning mee
- d. Individual contact with farmers and agribu people.
- 6. Advisory Committee Meetings.
- a. Review courses and activities.
- b. Get advice on school farm, etc.
- c. Set up field trips for the fall.
- d. Keep up to date on the most recent agricul developments.

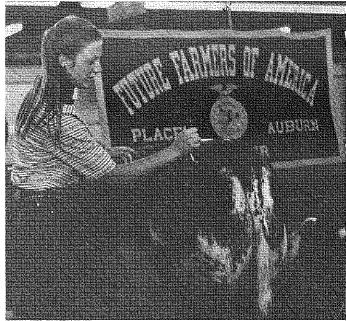
- 7. Departmental Housekeeping.
- a. Lesson plans.
- b. Repair of shop equipment.
- 6 Clean up shop and classroom.

How can we justify our summer programs?

It is becoming increasingly important that we be acountable for our time and activities. The major purpose of the summer program must be student contact and supersummer and supersonal experience and related activities which will lead the roung person to an occupational goal.

The following are some guidelines which might be used strengthen and aid in justifying your summer program:

- Request advice from your advisory committee in developing your summer program.
- 2 Submit a written plan including a calendar to your administrator. Request his recommendations and
- 3. Keep your administrator informed of your summer activities. Drop by and pick up your mail at the end of every day. Stop by your administrator's office and keep him informed.
- Let your advisory committee know what you are doing. Visit with members individually and at
- J. Include your administrator and counselors on some of your project visits or FFA activities.
- 6. Submit summer reports to your administrator, even if they are no longer required. List students you visit by name in the report. Include the names of farmers and agribusiness industry people contacted, also.
- 7. Submit an accomplishment report at the end of what you did and how you did it.



Fairs and Shows are appropriate summer activities.

Summer programs based primarily on developing lesson plans and repairing shop equipment are in my opinion open for criticism and are in jeopardy. Programs on the other hand that consist primarily of working with and supervising students are on a solid footing and can be easily defended. I hope that all of us will take a sound, critical look at our summer programs and gear them toward assisting agriculeach month or at the end of the summer. Summarize tural students to reach an occupational goal of their choice.



## BOOK REVIEWS

APPROVED PRACTICES IN BEAU-THYING THE HOME GROUNDS, Norman K. Hoover. Danville, Illinois: The Interstate Printers & Publishers, Inc., 1973, 4th Edition, 292 pp.,

APPROVED PRACTICES IN BEAUTI-IVING THE HOME GROUNDS is a book let the rural and urban resident who is interested in learning how to use the many pproved practices. Subjects are easy to mad it includes an index and glossary. Dan-Shon identification to Dahlia planting are in practical, easy to understand Chapter titles are: Opportunities in Beautifying the Home Grounds, Home fround Design, Construction of Walks and Drives, Grading, Establishing and Maintainthe Lawn, Plant Material Identification Selection, Planting Ornamentals, Mansement of Trees & Shrubs, Home Grounds stactures, and The Flower Garden.

The teacher may use this book as a text the technical subjects, the practical how to), and career exploration. The ist will certainly find many answers and ideas. The farmer and homeowner can make long range plans based on their wishes supplemented with ideas and information contained in the book, and then feel confident in carrying out those plans, using the shortcuts for economy of time and money.

Dr. Hoover is a subject-matter specialist in Agricultural Education, and Professor of Agricultural Education at The Pennsylvania State University, He received his Doctor's degree from that institution; he had practical experience as a teacher of vocational agriculture in several high schools, and also taught at Colorado State University. He is the author of the timely HANDBOOK OF AGRICULTURAL OCCUPATIONS, one of the biggest-selling books in the field of agricultural education, which has been adopted by many states.

Roger Engstrom, Coordinator Farm Veterans' Co-op Iowa Lakes Community College

MICROBIOLOGY OF THE ATMO-SPHERE, by P. H. Gregory. New York, New York: Halsted Press, 1973,

2nd edition, 297 pp. plus appendices,

Mr. Gregory starts his book with a section on the history of the science of trapping air-borne spores. The remainder of the book is devoted to an easily understood discussion of the various spores of the atmosphere and the means by which they are distributed and deposited. Some individual spores are discussed in some detail as well as various methods of collecting air samples for laboratory study.

In general, Mr. Gregory's account deals with the spores of various plants, that is, pollen and its effects on humans

The majority of the book is directed at the high school level student as a reference book. It would also be useful in an introductory college course dealing with the earth's atmosphere.

This is the kind of book that contains a wealth of information that a student can easily digest without much teacher assistance and would make a valuable addition to any school library. A very generous bibliography is also included for use by the interested reader.

Robert F. Monroe Hewes Occupational Center

## A VIABLE PROGRAM OF EDUCATION IN VOCATIONAL AGRICULTURE

1. C. Atherton Teacher Education Louisiana State University



J. C. Atherton

ported to have told an individual on one occasion that he had been dead for years but had failed to realize this fact. Of course he was speaking figuratively, but there could have been

much truth in what was said.

Could it not be possible that some of the educational programs in vocational agriculture are dead for all practical purposes or are at the point of death? Would inspection reveal that the organism is a mere hollow shell containing only remnants which are sterile and at best barely lukewarm?

It is easy to pass by such questions and simply shrug one's shoulders. One can hide behind the screen of indifference holding to the view — "surely this can't apply to us." It is to be hoped that one does not fit into this category, but how sure is he that he does not?

There is a possibility that the program is only partially alive — functioning in a sense, but not fully alive. The writer knew of a case where a young person had a large portion of the brain removed because it was diseased. This operation left the individual completely helpless, immobile and unaware of happenings which occurred. In such a state the person remained for months. Alive? Yes, but for all practical purposes dead. Is your program in such a

Live beings participate in a series of functions which are essential for the perpetuation of the species. Organizations carry on the same type activities stimulation had just begun to function throughout their existence. These in-through the provisions of the Smith-

clude: systematization or arrangement, development, assimilation, reaction and reproduction. The vocational agriculture program that is truly alive participates continually in these opera-

Systematization is a must for anything that works efficiently regardless changed; and there must be a of whether it is alive or inanimate. Being well organized is no guarantee that a program is functional; however, there will be little life in one which does not possess this quality.

As the program continues to exist there must be development if it meets the needs of those it is attempting to serve. Even when effort is made to merely maintain the status quo, there must be growth or development. Elements become time-worn and outmoded. Something must replace them. Conditions change sociologically and physiologically. These require modifications of many kinds so that the educational activity is in tune with the

Assimilation is another characteristic of a live and active program of vocational agriculture. Just as a living organism needs to utilize food, water and air for continued life and growth, so does an educational undertaking need to feed on those things that will nourish and stimulate it. These include the utilization of new ideas, new information, new procedures, and the best thought of the inhabitants of the area. When these are neglected, vocational agriculture tends to "dry up on the vine" and to wither away.

The major objectives of education in vocational agriculture are similar to those of 50 years ago when Federal

Hughes Act. There is a high degree sameness in the basic principles guide the program today. However should be recognized that there great need for the use of new n ods in the fulfillment of the Times have changed; conditions factory reaction to the sin Growth of the program and ever satisfactory continuance of it deman that attention be given to the vironment and the focus it to bear upon the educational progra Through an awareness of current new and problems the living program make adjustments so that it is in harms with the educational needs of those proposes to serve. History is full of amples of failure of individuals groups because of their inflexibility insensitiveness to current life.

An educational institution is design for the purpose of production. Regar less of its many other qualities. V tional Agriculture has failed to complish its prime responsibilty when does not bring about desirable cha of a relatively permanent nature in lives of its clients — the students. fails to produce, the institution mer serves as a monument to lost opposition

It may be a worthwhile activity examine agricultural education as applied locally and determine if really and fully alive. To what deg does it meet the criteria of a v program? Does the type of service a the quality of service meet me needs? Has mature judgment, plant and action been utilized to the ex that the critical eye of considered ment would find little to condemn

## YEAR-ROUND EDUCATION AT A TECHNICAL COLLEGE

Robert Collins Director of Academic Affairs University of Minnesota Technical College—Waseca



The University of Minnesota Technical College --Waseca is a new institution that began operation in the Fall term of 1971. The Technical College has a single mission that of preparing

students for mid-management, semisuppressional positions in the broad field of agriculture. To make effective use of the summer months, the yearround education concept was built into the calendar from the start. Planning for the college tied this concept into all phases of the operation before the doors actually opened.

This has resulted in a simple and effective approach to utilizing the sugger months. It basically involves having a full summer quarter which is the same length and gives the same coopliasis as the fall, winter and spring quarters. The 1973 summer quarter ran from June 25 to September 14; the lisst summer quarter in 1972 was also a full 12 week quarter. Student interest in the summer quarter has been high with 102 in June, 1972, (134 Fall, <sup>1971</sup>) and 201 in Summer, 1973, (320) Fall, 1972). Twenty-five percent of the stadent body start summer quarter diearly out of high school.

fhe Technical College — Waseca, a coordinate campus of the University Minnesota, emphasizes laboratory practical experiences. The full statumer quarter makes use of natural outdoor agricultural laboratories which are most useful during these months. Another plus is the efficient use of the facilities and research work of the



Fully-developed outdoor laboratories provide important learning opportunities for students at the University of Minnesota Technical College-Waseca during the Summer Quarter.

of Minnesota. The year-round program of the college allows for maximum use of the Southern Experiment Station in the teaching program during the summer months as well as throughout the vear.

The primary objective of the college is to develop competence for employment at the end of the technical education program which is more than two years but less than four years in length. With the four-quarter system, students may start college classes immediately after finishing high school and thus graduate and start to earn a salary at an earlier age. As a part of fall. this, students have an opportunity to adjacent 840 acre Southern Experiment accelerate their program by going conence is part of the technical program. mation, another unit of the University tinuously throughout the year.

An area of some confusion is the thought that the summer months are the busiest for the broad agricultural industry, including farming. This is not true of the area served by the Waseca college, with the planting season falling in the spring quarter and the harvesting season in the fall quarter. These have a higher priority of work than the summer months. This factor has developed a pattern among some students at UMW to attend classes during winter and summer quarters and to remain at home for planting in the spring and harvesting in the

One quarter of employment experi-(Continued on next page)

## Time To Recharge Your Batteries

Gail Sperlich

Asuccessful school year depends a great deal on the homework and the recharging one does in the summer. Not too many days pass in the new school year before I think of something I would like to get

done the following summer; but alas, I do not have a photographic memory. Therefore; I keep a "want to do next summer list" on file within easy reach. Whenever I have a brainstorm I jot it

With the long and busy school year, I like to make my summer work as enjoyable as possible. One thing that aids me in this is some advance organization. With the terrain as it is in our area, when a student says he lives two north, three west, one north, six west and one south of town, that better be the route I take: because there is no gravel road on each section line. As part of registration and orientation in first-year vocational agriculture, I have each student draw a map giving directions to his place from the nearest landmark or town. I have the students handed in either monthly or for the draw this map on the clear side of a 3x5 note card. On the other side of the card I have blanks for the student to fill in their name, parent's name, address, birthday and telephone number. and board know what I am doing but

Gail I. Sperlich Vo-Ag Instructor Geddes, South Dakota

This provides me with the information need for summer visits. It also comes in handy throughout the year. In addition, I find that where summer visits are concerned a post card mailed to the parents a few days in advance of a summer visit can solve problems. I list the date and approximate time I plan on being at the student's farm. In addition, I point out that I would like to visit with one or both parents when I do come. I ask that they let me know down; this allows me to remember the if the time or date are in conflict with things I want to do when the summer their schedule so I can schedule concern and the anticipation of another time, Granted, I still have success of my new visual gives me visits with nobody home once in a while, but it surely keeps these visits to a mini-

> A monthly travel report form helps me keep an accurate record of my summer visitations. I have a form made up with a column for: date, mileage reading out, mileage reading in, miles travel- and cure them for a visual aid Re ed and activities and/or students visited. This, along with a blank at the top of the form for month and instructor's name make these records easy to keep. In addition to the mileage report, I find that a weekly summer work report. whole summer, helps keep the administration and school board informed as to what the agriculture teacher is doing. This not only helps the administration

also gives them ammunition to when another teacher or a citizen a tions an eleven-month contract may sound like an excessive amoun extra reports to fill but, but it ach speeds up my summer work. It sh be noted, however, any report ha be simple and fast to be practice urge you to adapt the form to situation.

The recharge value to the vocation agriculture teacher of these diff summer activities will vary from instructor to another. Near the for my list is devising visual aids for years classes. My imagination can free when time schedules are of newed enthusiasm — really pus charge in my batteries. For example one not-so-hot winter day I conclud that if I had a life-size rumen it was add to an animal science or feed unit. I decided to go to the local loc plant, remove the four stomachs the planning and construction of stomach project had a high vocation agriculture teacher recharging va

It is pride in how and what I complish in the summer months to puts bounce back in my step y school starts. If I keep close tabs what I do and plan, it is surprising effective a summer can be. Persona I prefer to have a summer I can professionally proud of and carry full charge back to the classroom

(Collins-from previous page)

This is called the preoccupational preparation program and gives the student practical industry experience. Yearround education helps this internship program in that it allows the student to be out in the industry during the quarter (time of the year) that is most advantageous from a learning point of view in his field. For example, in the field of horticulture, this time is usually during the spring quarter.

Greater use can be made of expen-

sive facilities and equipment needed in have resulted from the present end the Technical College in a year-round education program. It provides for increasing the number of graduates without increasing the physical facilities in the same relationship.

All of these factors in the yearround education (four equal quarter system) give a great deal of flexibility to the program. The summer months are effectively utilized for the overall educational program. This may have be in vogue and utilization of increasing importance because of the renewed interest and discussions in grams may be an idea "whose time utilizing the summer months which

Over the years there has been terest shown in year-round educat in both public schools and colle This interest, however, has resu only in sporadic efforts in high scho and colleges to effectively utilize summer months. Perhaps 1974 is year that the separate "academic ye and "summer sessions" may no summer months for educational come."

## summer Activities—

## The Good Impression

Clinton V. Turner Agriculture Instructor Halifax County Senior High South Boston, Virginia

The summer program is an advantageous and vital function of the total agricultural education program that is essential for the preparation and upgrading of enrollees for agricultural occupations.

C. V. Turner This program is designed to be implemented over a twelve-month period. It follow-up training is to be effective, then the summer program is one of the most important phases of the total agricultural program. The instructor, ducing this twelve-week summer period, has many opportunities to do an effective job of supervising and teaching on the farm or in a job placement situation. In areas where a well planned program is in operation, it is recognized and accepted by the resielems of the area surrounding the de-

#### Prepare a Plan

A successful summer program depends largely on the agriculture teachen ability to effectively plan and execute a calendar of scheduled events. It is the responsibility of every teacher to prepare an itinerary of summer activities and submit it to the department chairman, school principal, division superintendent, and state supervisors. The summer plan should be developed as early as possible after the sastructor has determined the exact that the events are to take place. This plan should be accurate and religiously adhered to during the sumther. Failing to provide such a plan may be interpreted by your administrators as being an indication that you plan to do very little during this period. According to Lloyd J. Phipps in his Handbook on Agricultural Education in Public Schools, there are thirty-two \* twities to be included in the properly constructed summer calendar. An ex-

The public must be able to readily identify the services that Vocational Agriculture is rendering to the community. 

amination of this list readily reveals that many of the items included should only be performed periodically and not every summer.

#### Provide for Instruction

One should establish priorities for his department consistent with the needs and goals of the department in relationship to the surrounding community. Some areas that should be given special attentions on an itinerary of events are as follows. First, provide an opportunity for the instructional phase of the program to our all-day students, young farmers, and adult farmers who are enrolled in organized classes during these months. The summer provides an opportunity for enrollees to put into practice many of the things taught during the winter in our classes. It also provides an opportunity to evaluate our winter instructional program and to do further teaching on the appropriate topic. This time should also be used to maintain the motivation of the students and continue to give purpose to the course of instruction. Aiding in formulating plans, problem solving, and influencing attitudes of enrollees are some other activities that may be conducted either at the enrollees' farm, job placement center, or at the school.

Summer is a time to discard, select, acquire, and organize teaching materials and prepare facilities that will aid in the instructional program. We should discard old bulletins and textbooks that clutter our shelves, and organize our material to reduce lost time looking for certain items once formal

classes have begun. Use this time to assemble and write lesson plans to conform with performance objectives.

#### Focus on Improvement Second, in order to keep abreast of

the rapidly changing technology of agriculture science in a vastly complex society, it is imperative that constant attention be focused upon professional improvement. It is most unlikely for a teacher to become adequately proficient in performing the many diverse duties of the profession through undergraduate preparation alone. There are many alternatives at the teacher's disposal for obtaining these needed skills in areas of instruction. In-service short courses, workshops, seminars, and graduate courses are some of the ways used for improvement. The professional organization conventions are exceptionally helpful in providing new and innovative ideas and methods to its members. By following these practices of professional improvement within our various communities, we would have the necessary expertise to put forth a challenging, worthwhile program of improved agricultural education for the benefit of the entire community.

#### Publicize Activities

Third, our success in obtaining a just share of public funds will depend largely on the ability of agricultural education to demonstrate that its efforts to provide a quality program are fruitful. The public must be able to readily identify the services that Agricultural Education is rendering to the community. The need for improving our public relations is too obvious. Some methods used to improve public

- 1. Inform administrators of planned
- 2. Inform the public through the local news media, advisory council, and fairs.

(Concluded on page 263)

## MAKE

## "NO-ACCOUNT" SUMMERS **ACCOUNTABLE**

Alvin H. Halcomb Subject Matter Specialist Agribusiness Education Supervision Auburn, Alabama



to kill before school opens again? Nobody's business what happens during the summer?

Planning on tak-

ing things easy for

awhile? Have al-

most three months

Accountability? To whom?

If any of the above questions are perturbing, maybe there is a need to re-evaluate how the summer months are spent. A lot of people are taking a hard look at twelve-months teachers. It behooves each teacher to conduct a summer program that is creditable and accountable:

The community has a right to expect a good summer program from every twelve-month teacher. After all, who is providing the financial support for this program? Can the community be expected to continue their support when "no-account" programs are evident?

Much emphasis is being placed on accountability. People are not satisfied with how their tax dollars are being used. In otherwords, a day's work is expected for a day's pay. That's the way it should be.

Actually, there is little or no excuse for a "no-account" summer program. There is just too much to be done for any program to be labeled as such.

Most teachers welcome the summer months because it does afford a change in the routine of activities. The daily schedule is more flexible and, in year than during the school term. many cases, not as hectic. But, the responsibility of wisely using this "break" remains.

THE PROPERTY OF THE PROPERTY O

How well summer programs are planned and implemented will determine to a great extent the continuation of twelve-month contracts. 

A plan for summer activities is no less important than regular teaching plans. Summer programs of work, wellplanned and implemented, have paid dividends in the past. Local, county, and state administrators must be convinced that summer employment is needed. How well summer programs are planned and implemented will determine to a great extent the continuation of twelve-month employment.

There is too much to be done during the summer for any teacher to "take it easy." There are usually several "fixed" activities that demand time during the summer. These activities would include the FFA convention, summer workshops, teacher conferences, etc. Time is also required for work on advanced degrees.

The summer months afford an excellent opportunity to work with adults in the community. Many activities are more suited to this time of

Another important summer activity is the supervisory visits to all-day students. These visits may be to supervise

students placed for work expens and those who have programs at he This writer contends that every dent should have a supervised experience program. Do not lose s of this fact even though there has h changes in the clientele that is sen There is still the need for the tear to work closely with students a parents. Parental support of a program is a valuable asset.

The summer months also provide time for needed curriculum revi and the development of instructions materials and teaching aids. Plant is the key to successful teaching. Son one has well said, "Plan your wo work your plan."

Submitting a weekly itinerary du the summer is practiced by teachers. In some instances, it is quired. A schedule of weekly activ is submitted to the local principal superintendent. Many teachers post a copy of their itinerary on department door so visitors and other can locate them if needed.

Training of FFA officers is well spent during the summer. I for the year can be formalized in development of a chapter program activities.

Teachers, like everybody else, " some time off. A definite time sho be scheduled for a deserved vacation True, some teachers forfeit their val tion time in order to attend gradua

Accountability — Webster says the quality or state of being acc able! On account of accountability away with "no-account" summer

## Off-Farm Adult Education

Paul F. Pulse Supervision Columbus, Ohio



It is generally accepted that education is a lifelong process. Present day technology demands workers who possess new knowledge, skills and abilities that were not acquired during the period when

they attended school. With the rapid changes in technology, it is not uncommon for an individual worker to change jobs five to seven times during his years of employment. This situason generates a great need for inaviduals to upgrade themselves in order to remain employable in their present situation or to be eligible for coplayment in a different job classification, hopefully a more rewarding

This situation should offer a great challenge to any educator and parficularly to those in the field of vocasonal education. My comments will be somined to the field of Agricultural Education, the service of my employwent. What has been done in the area of agricultural education to upgrade

Since the passage of the Smith-Mughes Act in 1917, and before, agricultural educators have provided in-Muction for young and adult students wond high school age with supple-\*\*\*ntary educational programs in local whool districts. These programs were result of advisory committees assistlocal teachers of vocational agriculhere in determining curriculum, insuctional materials and the most the programs.

Because all programs were concerned with production agriculture it was only natural to find that practically all efforts to serve adults were concerned with providing information to enrollees which would, when applied to their individual farming enterprises, result in an improved operation returning a greater profit to the enrollees in the

During the 1971-72 school year two hundred sixty-one vocational agriculture teachers in Ohio served 11,973 adults with supplementary educational programs designed to upgrade the enrollees in the area of production ag-

This is good. Preliminary reports for the year 1972-73 indicate an increase in the number of programs and enrollees served. However, the potential number is far greater. We should be serving at least double this number. In the words of our State Director of Vocational Education, Dr. Byrl Shoemaker, "Pleased? yes! Satisfied? no!"

Now let us look at the present situation. Thus far we have only considered the area of production agriculture. What about the related fields of employment in off-farm agriculture? In Ohio there are at least ten to fifteen workers in agriculturally related offfarm jobs for every worker in actual production agriculture. For the school year 1971-72 in Ohio there were 495 teachers of vocational agriculture in all taxonomies — 300 were production ag-

Why have the teachers of vocational agriculture in the taxonomies of Agribusiness Service and Supply, Agriculresource personnel to contural Industrial Mechanics, Food Processing, Horticulture, Resource Con-

servation, Forestry, and Environmental Management not provided continuing education programs in these taxonomies for the workers in these fields, and for those people who desire to prepare to enter these fields? A very few have. It can be done.

Since these taxonomies provide a greater potential number of enrollees than we have in production agriculture it would appear that we are "missing the boat" in not serving them. In my judgment these are the people we need to be concerned about. If we do not function in this area to meet the needs of this group it is very evident that some other agency will. Remember! "Education is a lifelong process." Can you think of any area of endeavor where technology changes any faster than in nonproduction fields related to production agriculture?

You, the teacher of these subjects in the local educational system, have been elected to a position of trust. You have had years of occupational experience combined with technical and professional training to the point that you have been certified by your State Department of Education to serve in the capacity of a teacher, to legally be paid for this service. You are licensed. You carry the "union card." You can make a real contribution to the welfare of the citizens of your district. "The fields are ripe unto harvest." Enlist the service of an advisory committee. Develop a curriculum to meet the needs of the group. Secure the instructional materials. Provide the best resource personnel. Visit employers and prospective enrollees.

You can provide a program in your taxonomy that will upgrade adults in their chosen careers.

## BEATING THE ENROLLMENT PROBLEM

Andrew L. Farrar, Teacher Gretna, Virginia



Andrew Farrar

During the twelve years that I and my co-workers have been at Gretna Junior and Senior High Schools the enrollment in Vocational Agriculture and the FFA has increased from 76 to 178 members while this county lost in population according to the 1970 census. After making careful observations this school year, we are convinced that the involvement of students and parents is the key to solving the enrollment prob-

#### THE PROBLEMS

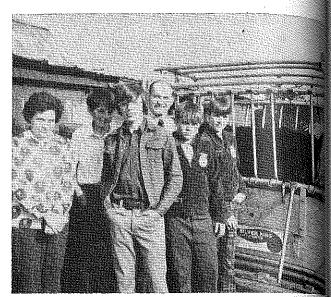
Across Virginia and the United States during the past decade our technology has reduced the number of employees needed in the production of food and fiber and a change had to be made to train individuals for marketable skills. General Mechanics was established to fill the void temporarily. The agricultural mechanics laboratories were not particularly suited for increased enrollments but the Vocational Education Act of 1963 enabled the local school division to meet their responsibility in the area of equipment and supplies.

Desegregation of schools required special training in human relations. However, because of excellent leadership the adjustments were made. Fortunately the staff in Vocational Agriculture in the school system were able to establish a very friendly relationship - a necessity, we found, because it allowed for constructive criticism as well as equal sharing of work and responsibility.

From our point of view, multiple-teacher departments require much work and much long-range planning. Yet those who have been involved with multiple-teacher situations, will agree that it gives greater impetus to be creative, to be imaginative, and to explore the exciting new approaches to learning in Vocational Education.

What has helped the enrollment problem? Some of the things we think contributed to it follow:

- 1. Participation in the local, state and national FFA organization
- 2. Informing the public of activities
- 3. Parent-Son Awards Banquets
- 4. Cooperation with other organizations in the community
- 5. Participation of staff in workshops and seminars for continuing education
- 6. Enthusiasm of resource personnel available to com-
- 7. Active adult and young farmer programs in the
- 8. Periodic evaluation of the programs with an advisory council



Advisor, B. R. Guill (rear), with portable scale for weighing stock up to 3000 lbs. These students weighed animals on nin ferent farms for the spring show and sale. Awards are present spring Parent-Son Banquet for student with best average daily



Gretna Jr. High students displaying Crop and Mechanics pr with ribbons won at local agricultural fairs.

We sought answers to such questions as: What co butions to the welfare of individuals and families are being made through the programs now being offered? may these contributions continue to be maintained? can present resources be used differently, or additional sources be obtained to extend the contributions of Vocal al Agriculture to every student and family in the com who might profit from what the program has to offer?

## Africa — SECONDARY EDUCATION IS VOCATIONAL EDUCATION IN TANZANIA

Eugene Anderson\*

Secondary schools are becoming vocational schools through a change now ting place in Tanzania. This East African country is attempting to acederate its social and economic develgunent by providing vocational educanon for all of its secondary school nudents. Vocational training is seen as the most realistic and appropriate type of secondary education for present-day Tanzania.

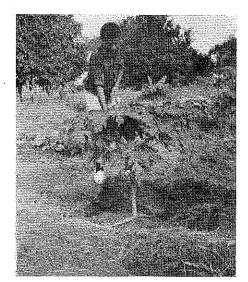
Two major factors have created the impetus for the change to vocational education. One of these factors is the imited resources available for education, Secondary and higher education erve a functional role in Tanzania because of this limitation. Investment in post-primary education is made, as it is in other segments of the economy, where it will result in the highest return to national development. The curpose of this education is to produce the trained manpower needed in the country. The type, amount, and level of post-primary education is deterwined by the projected manpower requirements of the national development plan. The change to vocational condary education is an attempt to obtain a better return on the investment in secondary education.

The second factor which led to the deption of vocational secondary education was the growing diversity beween the secondary educational experience and the realities of life in anzania. The country had chosen a ocialistic route to development. The major means of production, distribution, and marketing had been taken over by the Government. Social and economic equalization of the people \*as becoming a reality. However, the Investment in post-primary education is made, as it is in other segments of the economy, where it will result in the highest return to national development.

ates went on to higher education, the emphasis was on an arts and science preparation for college or university entry. The eighty-five to ninety percent not selected for higher education were considered "failures," though most of them obtained white-collar jobs. One of the problems of the majority of graduates was that an arts or science secondary education was of little practical value to them in these jobs.

A vocational education at the secondary level in Tanzania does not, as it does in the United States, prepare the student for entry into an occupation. Rather, its purpose is to provide the student with a vocational experience. This should enable him to effectively contribute to national development in the job to which he is assigned after completing his education. Very few secondary school graduates become farmers, mechanics, factory workers, or craftsmen. Some are selected for higher education. Most are assigned to employment in government or other organizations in supervisory, management, or educational positions.

National development in Tanzania is dependent upon the production of its farmers and laborers. The greater and more efficient this production is, the faster the nation will be developed. condary schools were continuing in a The role of the secondary school gradurole established during the ate in national development is to proolonial period. An educated elite was vide economic and social services such prepared for entry into higher as education, medical treatment, marducation. Though only ten to fifteen keting, and banking to the farmers and Freent of the secondary school gradu- workers who are the producers.



A student cultivating a young papaya tree on the school farm at Tumaini Secondary School, Tanzania.

A vocational secondary education is intended to enable the student to become an effective contributor to national development. The general education and work experience in a particular vocational area is expected to make him aware of the area, more sympathetic to those working in that area, and thereby, more effective in

Five vocational areas have been selected for the secondary school curriculum. These are: agriculture, technical, commerce, crafts and industry, and home economics. Initially, each secondary school will concentrate on one of these areas. Later, some schools will provide training in two or three of these vocational areas.

(Concluded on next page)

MAY, 1974

<sup>\*</sup>Eugene Anderson taught three years at Tumain Secondary School in Tanzania. He carned the B.S. and M.A. degrees in Agricultural Education at the University of Minnesota. He is now a doctoral candidate in Curriculum and Instruction at Uni-

#### Agricultural Schools

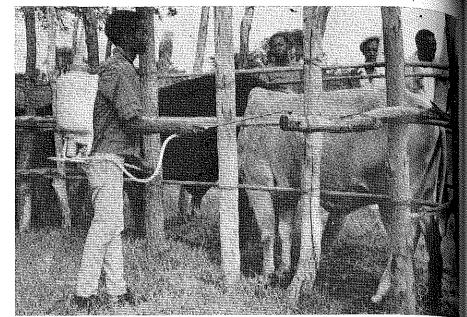
The agricultural secondary schools are an example of the new vocational emphasis in Tanzania, About thirty percent of the country's secondary schools will become agricultural schools as a result of the change to vocational education. This contrasts with the situation before the plan when only one of the 112 secondary schools in the country was teaching an agriculture course. The introduction of agricultural secondary schools is intended to contribute significantly toward national development because agriculture is the largest sector of the nation's economy.

Agriculture has been identified by the Tanzanian government as the base on which the social and economic development of the country will be built. Agriculture is important in Tanzania because no other segment of the economy is capable of producing the wealth needed to finance development. An estimated ninety-five percent of the population obtain their livelihood from agriculture. It is these twelve million people, most of whom are subsistence farmers, who must improve and increase their production in order that surplus agricultural products can be sold to finance the development of the country.

The purpose of the agricultural secondary schools is to produce graduates who have a general knowledge about agriculture production and who have developed an appreciation of farming, farmers, and rural life. They will then be better able to perform the jobs to which they will be assigned. The result should be more efficient and more rapid national development.

During the first two years, the students in an agricultural secondary school have twelve, forty-minute periods of agriculture class each week. This is increased to eighteen periods per week during the last two years. A total of forty-five class periods are prescribed each week. In addition to agriculture, the students study civics, Swahili, English, mathematics, chemistry, biology, geography, and history.

The first year of secondary school agriculture is an orientation to agriculture as the basis for national development. During that year, the importance of agriculture in the development of mankind is stressed from a school partially self-sufficient. The



Students spraying cattle for ticks. Part of the dual purpose cattle project at Tun Secondary School, Tanzania.

socialist viewpoint. The emphasis is on socialist agricultural production for the most effective national development.

The technical subject matter of agriculture is taught during the second and third years of secondary school. The instruction includes production of crops, livestock, poultry, bees, fish, and forests. In addition, a large part of the syllabus is devoted to agricultural economics and agricultural mechanics. The fourth year of the syllabus is devoted to planning, organizing, and managing socialist agricultural produc-

The syllabus allocates approximately two-thirds of the agriculture class periods to practical work. This practical work is intended to be the application of principles taught in the classroom. Most Tanzanian secondary schools are boarding schools attended by students from all parts of the country so there are no "home" farms near by on which the students can do the practical work. The school farm is, therefore, a vital part of the agricultural secondary school.

The school farm serves four main purposes. First, it is a laboratory for the agriculture classes. The principles taught in the classroom are demonstrated and practiced on the farm.

A second purpose is to make the

farm is expected to produce a portion of the food needed by the studen Profits obtained from the sale of cree and livestock are used to reduce I school's operating budget.

Extension is a third function. The school farm is a center in the con munity for the demonstration of prope production techniques. It can serve a source of new varieties of crops a well as a source of information an advice for the local farmers.

The fourth purpose of the school farm is to provide the students w experience in socialist managements operation of a productive enterpris The farm provides an opportunity le the students to work together coopera tively. It is a laboratory for socials development.

A Tanzanian agricultural seconda school, like other secondary schools the country, is best understood if it not viewed merely as a school. It much more than a school. It is community which includes student teachers, classrooms, dormitories, ing hall, sports field, and farm. It cludes physical work, classroom stu social activities, and political activities It is a social, economic, and political unit where young Tanzanians work, study, and play together. where they learn to live socialism, tionalism, and agriculture.

## **COMPETENCIES IN** ORNAMENTAL HORTICULTURE

Curtis E. Loewen\*

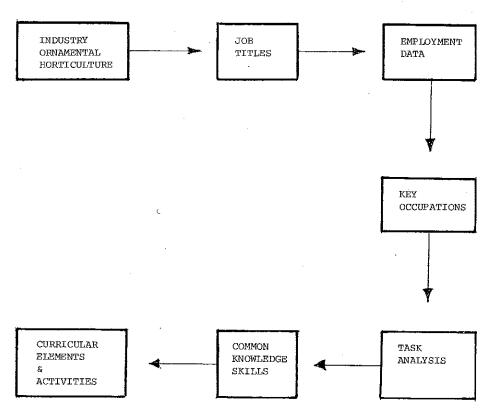


Cartis Loewen

Why do we teach asexual propagation in our ornamental horticulture programs? Are you aware that skills in taking cuttings and propagating plants are needed by very few employees in horticultural occupations?

What assurance do we have that the modents graduating from our programs have the competencies needed for sucressful employment in the areas for which they are being trained? Are the competencies so general that they have little value for employment, or are they so specialized that they seriously limit the student's mobility for future change. What is the basis for your omamental horticulture curriculum? What provision have you made for keeping it up to date?

During the past three years the author has been directly involved in a number of activities resulting in the identification of competencies needed for agricultural occupations in Oregon. A special project focused upon the desermination of knowledge and skills required for the ornamental horticulture industry. The procedure employed to derive the competencies closely paralleled the approach used in deteloping Oregon's Occupational Clus-Fer Guides. Ornamental horticulture was considered a sub-cluster, or one of the several industries within agriculture, containing several occupational groups. After each group was analyzed in terms of competencies needed for surressful employment, the knowledge and skill items were reduced to those most common to all the horticultural



A systematic procedure for bridging the gap between the industry and the preparatory training program.

The 1968 Amendments clearly stated that we were to provide training which is "realistic in the light of employment opportunities." We learned, shortly thereafter, that ornamental horticulture was the fastest growing industry in Oregon. This awareness suggested a need to determine what present and projected opportunities for employment do, in fact, exist in the industry. Our first step was to analyze the industry and its major occupational groups The following diagram illustrates the which included the florists, landscapers, nurserymen, greenhousemen, turf manween the industry and the curriculum: agers, parks and garden centers. Our

primary source of basic information came from the various trade associations, i.e., Landscape Gardeners Association; Oregon Association of Nurserymen; Turf Managers Association; Associated Landscape Contractors. From this information we developed a

\*This article is largely based upon Curt Loewen's Ed.D. dissertation, "A Curricular Model in Ornamental Horticulture for Vocational Agriculture in Oregon," which was completed at Oregon State University in May, 1970. A former teacher of vocational agriculture in Oregon, Dr. Loewen has been agribusiness Specialist with the Oregon Board of Education and is now a visiting professor, at Oregon State University, Corvallis, Oregon.

(Continued on page 262)

## ATTITUDES OF PROSPECTIVE AND PRESENT TEACHERS TOWARD SELECTED VOCATIONAL **AGRICULTURE ACTIVITIES**



Joe C. Combs Vocational Agriculture Teacher Sunbright High School Sunbright, Tennessee

John D. Todd Vocational-Technical Education University of Tennessee



Welch Barnett

school district community.

are accountable.

Since the teacher is the one who

knows the program best he should sub-

mit what he believes he is accountable

for, to the school administration for

their review, revision, and approval if

needed. Many times we have informed

teachers that they must be accountable

but we have not always given them

the direction and assistance needed to

determine specifically for what they

The job of teaching vocational agriculture involves many activities. Some teachers place emphasis on certain activities and show little regard for others. This can probably be justified when considering student and community needs, but often-time priorities given to activities are determined by attitudes which have been influenced by the background and teaching experience of the teacher. Even though attitudes are often determined by ones assessment of a situation that could vary from time to place, many of them become stereotyped and influenced by tradition irrespective of need or reason. Agricultural educators dedicated to promoting quality programs in vocational agriculture should be concerned about the influence on attitudes of teachers. There is probably a high correlation between the attitudes of teachers toward a certain activity and their performance in relation to accomplishing that activity.

What are some of the differences in attitude among persons involved with vocational agriculture programs which warrant a concern within agricultural education? Are there significant differences in attitude toward selected vocational agriculture activities between agricultural education teachers and those preparing for the profession? Are the variables of educational attainment, years of teaching experience, age, and size of school where the person teaches related to attitudes regarding vocational agriculture activities? A study was recently conducted at The University of Tennessee to determine some of these differences in attitude of prospective and present teachers toward selected vocational agriculture activities.1

The sample for the study was comprised of three groups. The first group consisted of 35 experienced teachers selected at random from all experienced teachers in Tennessee. Experienced teachers were those who had taught for ten or more years. The second group consisted of 26 firstyear teachers representing all the first-year teachers in the state at the time the study was completed. The third group was comprised of 32 agricultural education students who were preparing to become teachers. These students had completed at least one agricultural education course but had

1. Combs, Joe C. "Attitudes of Prospective and Present Agricultural Education Teachers Toward Selected Vocational Agriculture Activities," unpublished Master's thesis, University of Tennessee, Knoxville, 1973.

not been enrolled in student teaching. The persons sele for the study completed a 40-item, attitudinal invent relative to different activities of teaching vocational agree ture. Significant differences in attitude were determined an analysis of variance or a t-test and tested at the .05 les of significance.

#### Major Findings

A summary of some of the major findings follows

- 1. All persons included in the study gave a negative action to the statement that vocational agricult teachers should be employed for only ten mont Experienced teachers and first-year teachers gave more negative response to the statement than the are cultural education students. The responses of the teach ers were significantly different from the students.
- Experienced teachers gave a positive reaction to t statement that teachers should join all relevant pro sional organizations. This attitude was significant different from the attitudes of first year teachers a agricultural education students who both gave negative responses to the statement with students giving the most negative response.
- Experienced teachers gave a positive reaction to statement that regular class time should be used FFA activities. There were significant differences amo all three groups for this statement. First-year teacher and agricultural education students expressed a negati reaction, with the students giving the more negative
- Experienced teachers gave the least positive reaction the statement that an advisory group should be used help plan the course of study. Their reaction different significantly from the other two groups.
- Experienced teachers expressed a negative reaction the statement that vocational agriculture teacher should teach adult classes. Their reaction was signi cantly different from the other two groups who positive reactions to the statement. Experienced teach gave a positive reaction to the statement that area ad should be allowed to use the agricultural mechanic facilities. This reaction was significantly different in

(Continued on next 108

## **Advisory Councils and Summer Accountability**

Welch Barnett State Supervisor Agricultural Education Service, Ohio

## WARRANGE BARRANGE BAR

Identifying needed summer program activities can be accomplished through the guidance of a local advisory committee.

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fore, the amount of Some important areas of teacher employment during accountability in vocational agricultural the summer months must be established education are the areas of related in terms of need. This can be accom-(classroom) instruction, the subsequent, plished through the guidance of a local development of student occupational dvisory committee composed largely experience programs, and adequate voof persons from the area of agriculture cational supervision of these programs. for which the local program is design-Thus the student will be provided with ed to train individuals. Obviously, the opportunity to acquire the knowledge and performance skills so that he school board members must officially act on such a decision. The teacher can be successful in the area of emmust be accountable to the administraployment for which the training is designed. The teacher who has worked tive personnel in the school district. He may be accountable to the building for years in the particular area of study principal or vocational director, or the is generally at a distinct advantage superintendent of schools, in addition to the students and the people of the

The yearly program of FFA activities for citizenship, leadership, and personal development needs much attention as an integral part of the program. It is in this area that the technically capable teacher often needs additional in-service education.

Teachers of vocational programs in agricultural education need now more than ever to be a part of their professional organization and conduct themselves accordingly. No one is better qualified to get an audience with and

effectively help his fellow teacher than those of us who are teachers.

Accountability during the time school is not in session has been a concern for some time. A detailed plan for student instruction and supervision during the summer months must be submitted to the school administration before June 1 of each year. This must be updated often, possibly each week during the summer. The teachers travel report also, if properly completed, gives additional valuable opportunity for accountability by providing a daily itinerary of the teacher's activities. Soon after the first of September of each year, a written summary of the summer activities must be submitted to the school administration. Certainly individualized and group instruction and the supervision for further development and expansion of the student's occupational experience programs should receive at least 75 percent of the teacher's time.

Local support for a program in agricultural education can exist only when the local people are informed of the purpose of the program, the number of individuals served, and the role of the teacher in planning and conducting the program. An active, well directed advisory committee can assist the teacher in identifying those things for which he is accountable, and help inform the public of the program and the service the community is receiving.



(Combs and Todd—from page 260)

the other two groups who gave negative responses to the statement. These findings may appear inconsistent but teaching adult classes would involve more teacher time than permitting adults to use the shop facilities.

Teachers of Ag-

ricultural Educa-

tion programs must

know what they are

accountable for and

to whom they are

accountable. The

length of the pro-

gram, and there-

6. Experienced teachers gave the least positive reaction to the statement that FFA chapters should be allowed to conduct sales projects and also to the statement that constructing articles in the shop was an effective way to finance an agricultural mechanics program. Their reactions to these statements were significantly different from the responses of the agricultural education stu-

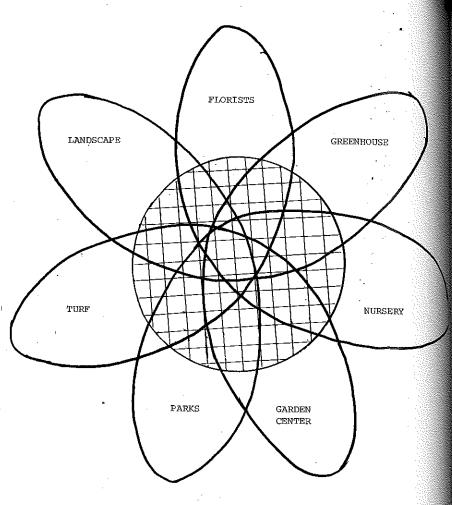
All groups felt that teachers of vocational agriculture were not sufficiently trained to teach agricultural mechanics. The first-year teachers gave the most negative response to this statement and it differed significantly from the other two groups. This finding seem to indicate that first-year teachers are made cognizant of this deficiency when confronted with their first teaching experience.

(Concluded on page 263)

list of job titles, allowing for additions to be made, and introduced it to the State Department of Employment. Their cooperation with the Oregon Board of Education resulted in a statewide manpower survey of the ornamental horticulture industry. The data obtained from the returned questionnaires not only verified the expanding employment need but also revealed that, for the most part, the job titles used had little meaning since the industry was developing so rapidly, hence standard job descriptions were inappropriate.

The next step involved a determination of the key, or most numerous, occupations found in each of the seven occupational groups. Since the job titles held little significance it was agreed upon by each of the subgroups that the term "worker" would be adequate to represent the group, i.e., landscape worker, garden center worker. Once these "worker" designations were assigned a task analysis was made for each of the representative (key) jobs in the seven occupational areas. Prior to the formal interviews an initial list of competencies was obtained by meeting with small groups of employers from each of the seven areas. At that time, a blank sheet of paper was used to list the tasks performed on the job for these respective workers. The tasks were derived from the question, "What does the worker do?" Frequently, the answer "He needs to know (thus and so)," i.e., mechanics, chemistry, botany. Immediately the author's response would be, "He needs to know (thus and so) in order to do what?" After the lists of the worker tasks were completed, they were combined and grouped under four categories: technical. business, human relations and communications. The competency list was reviewed, modified and accepted by an advisory committee representing each of the seven groups. This list of competencies served as the basis for the checklist used during the subsequent formal interviews.

A stratified, purposive random sample was drawn from a population of 180 firms and agencies, each one of which had a minimum of two full-time hired workers. A sample of eight firms and/or agencies was drawn from each of the seven occupational groups, mak-



Shaded area represents the common competencies needed for all ornamental horticultural occupations.

ing a total of 56 ornamental horticul- The shaded area suggests the comture business firms or agencies to be interviewed. The instrument used included a list of 100 competencies considered most important by the advisory committee in performing worker tasks. The 56 employers interviewed responded by checking one of four options relating to the competency, whether it was "essential," "important," "useful" or "not needed." Not only were the competencies rated from 1 to 100 for each of the seven groups but they were subsequently combined and given rank order as a composite of the total ornamental horticulture industry. A final list of 45 common competencies evolved as being those in which 50 percent or more of the 56 respondents rated "essential" or "important" for ornamental horticulture occupations.

The following diagram shows overlapping concentric circles representing the seven occupational groups within the ornamental horticulture industry.

competencies where the circles of lap. The farther away from the co one moves, the more specialized competencies become.

A few highlights of the finding showed strong agreement among employer respondents in the im tance of human relations and co munications skills in horticultural cupations. All six items included in study ranked within the first a placings, out of 100 total, with "n taining good relations" at the Technical knowledge and skills col sidered most important were in areas of plant growth and develo ment, soil composition and draina fertilizer materials, pest control, opera ing and maintaining small equipa and, in addition, basic business of tion. Incidentally, "propagating plant part" ranked below the critet level to qualify as a common con

(Concluded on next 10)

Funer-from page 253)

lyouse. 👔 Sponsor a banquet.

Distribute calendars

FFA activities. One method that has been used estensively in my community to inform the public of programs being provided the school survey for the employment graduates. According to recent quality an all-out campaign should be sunched to acquaint the public with de purpose and value of the agriculprogram. Personal contact should made with agricultural businessmen, and key people throughout the samunity to help convey this message. This type of public relations activity

1 Invite the community to "open will help to encourage the public to department in developing, administering and evaluating the total program. The data gathered through surveys would indicate the extent to which employment opportunities will exist in agriculture and related occupations in the future. Efforts should be made to identify the type of jobs which will become available and the skills needed to carry out these jobs. This type of job analysis will give direction to curriculum development in addition to providing teachers with up-to-date information that can be used by the teachers to help strengthen their career guidance role.

Make Impression

In concluding, the responsibility of a good summer program is left entirely to the local teacher of agricultural education. Emphasis must be placed on planning and executing a program which justifies twelve-month employment. We must remain cognizant of the fact that we are educators first and foremost. We must plan our activities and work our plan in order to remain a viable profession as we have in the past. Put forth every effort to improve our image throughout the community by launching a public relations campaign. We need to keep in mind that we never get a second chance to make a good first impression.

Loquen-from page 262)

plant propagation as a learning activity sther important competencies could be descioped, i.e., determining environmental factors affecting plant growth.

The final list of common compeservies derived from the above process provides a valid basis for preparing endents for all ornamental horticulare occupations. This common core has ramifications for articulating

However, upon further analysis secondary and post-secondary programs it became apparent that by including and for in-service and pre-service teacher education. Obviously, the teacher needs to be able to perform the competencies in order to effectively transmit them to the student. The above procedure may also be applied to other industries as well. Hopefully, it can serve as a model for obtaining occupational information as a basis for curriculum development and improvement.

Tour Scheduled

The University of Akron is planning a 21-day occupational education study tour to Morocco, Greece, Turkey, Spain, and Portugal. The tour leaves New York June 24, 1974 and returns Tuly 15, 1974.

Tour participants may earn five quarter hours graduate credit.

For further information, please write Dr. Bill J. Frye, College of Education, The University of Akron, Akron, Ohio 44325.

Combs and Todd—from page 261)

8 Teachers with only a Bachelor of Science degree gave the most positive reaction to the statement that FFA officers should be required to attend leadership training camp. Their reactions differed significantly from teachex with more educational training.

1 Teachers from all age groups gave positive responses to the statement that the advisory council should represent a cross-section of persons in the community, but teachers who were over 50 years of age gave the most positive reaction to this statement which was significantly difterent from reactions of teachers representing other age

All teachers reacted positively to the statement that there should be one scheduled period per day for planning and counseling. Teachers who taught in schools with 500 or more students gave the most positive reaction to this statement, and their responses were significantly different from teachers representing smaller schoole

Conclusions and Recommendations Many of the differences in attitudes which were found among the respondents were deemed important. Many of the differences related to the activities considered essential for conducting quality programs in vocational agriculture. There were significant differences in attitudes relating to the following activities:

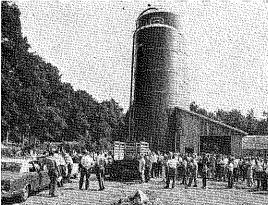
- a. Use of advisory committees
- b. Number of months for yearly employment
- c. Youth leadership activities
- d. Membership in professional organizations
- e. Teaching of adults
- f. Agricultural mechanics program
- g. Scheduled time for planning

There should be unity of attitude with many of these facets of the program among persons involved in agricultural education. Pre- and in-service education should be directed toward developing teachers with the proper attitudes for conducting quality programs. Since persons preparing to become teachers have definite attitudes toward teaching vocational agriculture, recruitment efforts should be directed toward obtaining persons with a good background for the profession.

So Much To Do

So Little Time







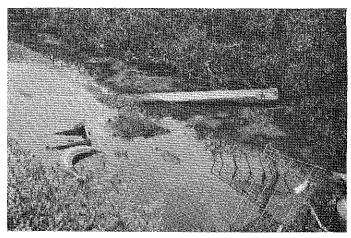
# Agricultural Education

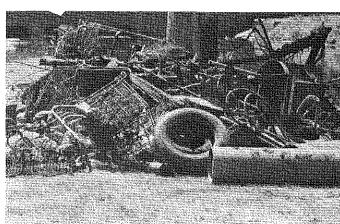
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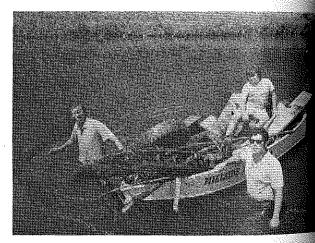
## Stories in Pictures

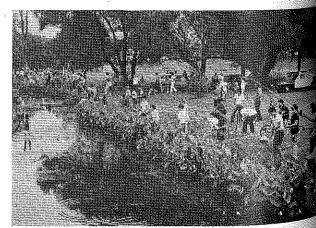
by Richard Douglass

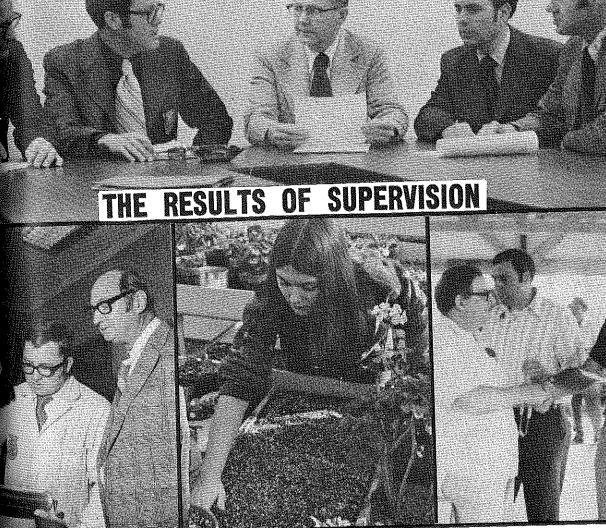




Attend In-Service Workshops (above left) — These South In Vo. Ag. Instructors are getting up to date on the new of Fault Interrupter" circuits. (Photo from Gary McVe), Dakota State University) Set Up Young and Adult Farmer (above center) — Summer is an ideal time to do the work" on upcoming tours and Field days. (Photo from Meyers Jr. Ag. Ed. Supervisor from Virginia) Improve Leducation (above right) — Dr. Larry Miller, (second from Virginia Polytechnic Institute, is using video tape to demost the Flander's Interaction Analysis system of observing tea Cooperating teachers have considerable impact on teacher cation. (Photo by Jasper Lee, Virginia Ag. Ed. Dept. Improve America (below) — This sequence of pictures detected the efforts of the Elizabeth River Conservation and Beauffle Committee to clean the river of pollution and debris and many a habitation for pan fish. The photos won first place in the category of the 1973 Keep America Beautiful/Kodak Awards. (Photos from Kodak News)







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New Programs

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Theme—ADMINISTRATION AND

Plus—Guidelines for Adult Education

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