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# Texas Tech News

UNIVERSITY NEWS AND PUBLICATIONS / P.O. BOX 4650 / TEXAS TECH UNIVERSITY / LUBBOCK, TEXAS 79409 / (806) 742-2136

Residence telephones: Jane Brandenberger, Director, 829-2108 / Bea Zeeck, Associate Director, 296-7125 / Dan Tarpley, Manager, News Bureau, 792-5596

CONTACT: Heinrich H. Steiner

LUBBOCK--The oft-discussed contemporary educational problems in the American school system extend beyond the student level.

Through a survey among selected West Texas schools Dr. Weldon E. Beckner and research assistant Jeannine Foster of Texas Tech University found the in-service education of public school administrators has received too little attention from universities, state education agencies and the federal government.

According to Beckner, professor of education, in-service education programs for teachers and counselors are getting needed attention, but principals, superintendents and their assistants are still neglected.

The study of Beckner and Foster was designed to survey small school administrators' interest in leadership training through in-service education, to explore the specific areas of such interest and to determine the preferences for type, location and duration of such training.

The study included 281 randomly chosen principals of schools with less than 500 pupils.

Areas under investigation included curriculum and instruction, personnel administration and operations.

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teacher's education/add one

Almost 70 percent of the respondents indicated strong interest in assistance in handling disciplinary problems and understanding students, while 55 percent were interested in the area of curriculum revision or organization.

The areas of administration and operation received relatively less attention.

Need for help in the field of budget preparation was expressed by 41 percent of the administrators, and 36 percent showed special concern for absenteeism and tardiness.

Responses did not differ significantly on the basis of type of administrator, level of administration, ethnic composition and other considerations.

Asked about their interest in possible workshop sessions, three-fourths of the respondents showed a favorable attitude.

More than 25 percent preferred sessions of up to three hours and 68 percent were willing to travel up to 100 miles to take part in any form of workshop.

One the basis of this research, a pilot in-service education workshop for principals of small schools will be conducted by Beckner and Foster on Aug. 15 in the Texas Tech University Center.

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CONTACT: Kim Palmer

LUBBOCK--A series of ballet short courses for beginners will be offered during the fall semester at Texas Tech University.

The series will be co-sponsored by the Department of Health, Physical Education and Recreation and the Division of Continuing Education.

Four courses are scheduled for Sept. 5-Sept 28, Oct. 3-Oct 26, Oct. 31-Nov. 23, and Nov. 28-Dec. 21. Tuition is \$25 per course or \$85 for the complete series. Advance registration for all courses will result in a \$15 discount. The courses are open to any person 10 years of age or older.

Instruction will be given on Tuesdays and Thursdays, 5:30-7 p.m., in the Women's Gym Dance Studio. Applications for enrollment are now being accepted. Enrollment will be limited to 20 students per course.

Instruction will be given on the beginning level for the study of classical dance. The program for the "Study of Classical Dance" was written by V. S. Kostrovitskaya of Leningrad, translated by John Barker of New York City and will be taught by Peggy Willis, associate professor of physical education at Texas Tech.

Continuing Education certificates will be given to those successfully completing the series. Texas Tech students enrolled

-more-

ballet short courses/add one

in certain physical education courses may elect to take all or any of the courses to supplement their instruction.

Tuition will be refunded in full if requested on or before Sept. 5. Texas Tech reserves the right to cancel any course due to insufficient enrollment, in which case tuition will be refunded in full.

For additional information write or call Peggy Willis, Texas Tech University, P.O. Box 4070, Lubbock, Texas 79409; 806-742-3361 or 742-3371.

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cutlines-----

SCHOOL ADMINISTRATORS DISCUSS PROBLEMS--Principals of public schools in smaller South Plains towns gathered at Texas Tech University Tuesday (Aug. 15) for an in-service education workshop conducted by the College of Education. They discussed matters of discipline, budget preparation, absenteeism and tardiness, and curriculum. Among those attending were, from left, Ted Dockery, principal of Wilson Elementary School; David Cavitt, principal of Whiteface Elementary; Joe Gibson, Meadow High School principal; Dr. Weldon Beckner, professor of education at Texas Tech University and director of the workshop; and Luther A. Dunkerson, principal of Whiteface High School. (Tech Photo)

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LUBBOCK--A \$20,060 institutional grant will strengthen the public service education and public administration program at Texas Tech University.

The U.S. Department of Health, Education and Welfare awarded the grant.

The Center for Public Service at Texas Tech will use the money. The center is a joint effort of the Political Science Department and the College of Business Administration to enhance the master of public administration degree program.

Texas Tech has allocated the center \$10,134 matching funds in faculty and staff time for the 1978-79 academic year.

The HEW grant will provide for the appointment of two adjunct professors from government service. The professors will be in residence at intervals during each semester for short-term seminars, workshops, lectures, individual student tutorials and program development consultation.

To enhance the practical experience of the students and also provide service to small cities in the area one former city manager will be employed as an adjunct professor on a full-time basis for the 1979 spring semester and first summer session.

The adjunct professor will offer a course in which students

new grant/add one

will work directly with small cities in need of management assistance.

The center will also provide visiting practitioners from such fields as personnel, budgeting, planning and criminal justice for one-day visits to the Texas Tech campus. Faculty members from other universities also may be included in the campus visits.

Money has been allocated to provide travel support for permanent members of the faculty, staff and students to attend training programs and professional conferences and for presentation of professional papers.

The center will develop a simulation exercise in intergovernmental interaction. The exercise will become a curriculum resource for a new course in intergovernmental relations. The simulation will give students experience in dealing with the complex procedures for state and governments to seek grants to finance local services.

Dr. N. Joseph Cayer, associate professor of political science and acting director for the center, announced receipt of the grant.

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LUBBOCK--Terry Owen Dipprey, son of Mr. and Mrs. Owen Dipprey of 1558 Norman, Wichita Falls, was graduated from Texas Tech University with a Bachelor of Arts Degree at the conclusion of the spring semester.

Commencement exercises were conducted May 12 ~~at 10:00 a.m.~~ when degrees were presented to more than 2,000 students.

Dipprey's degree was in business administration and he list listed on the dean's honor roll several times ~~at 10:00 a.m.~~ while attending Texas Tech. He also was nominated for the National Dean's List.

Texas Tech University has an enrollment of more than 22,000 students in its colleges of Agricultural Sciences, Arts and Sciences, Business Administration, Education, Engineering and Home Economics.

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CONTACT: Becky Patterson

LUBBOCK--The Research and Training Center in Mental Retardation at Texas Tech University will sponsor a seminar on independent living for the physically and mentally handicapped on Aug. 21-23 at the Lubbock Memorial Civic Center.

The Research and Training Center is one of nine local and state agencies co-sponsoring the workshop.

Concepts and principles related to independent living for the developmentally handicapped will be discussed, and information on outstanding programs will be presented by professionals involved in those programs. Practitioners will have opportunity for information exchange with other professionals working with handicapped persons.

Dr. Gerard J. Bensberg, director of the Tech center, predicts that approximately 100 persons will attend. He said the workshop will be "especially valuable for the handicapped, governmental officials and concerned individuals in West Texas."

The workshop will be free of charge to participants, except for individual travel expenses.

Co-sponsors include the Lubbock Area Extended Rehabilitation Service, Inc., Regional Project for Housing and Transportation for Developmentally Disabled, East Central Oklahoma State University at Ada, Texas Institute for Rehabilitation and Research, Baylor College

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workshop/add one

of Medicine, Texas Developmentally Disabilities Planning and Advisory Council, West Texas Wheelers, National Paraplegic Foundation Chapter and the Texas Tech University Research and Training Center in Mental Retardation.

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CONTACT: Pat Broyles

ATTN: PSA Directors (Kill Sept. 5)

A SERIES OF BALLET SHORT COURSES FOR BEGINNERS WILL BE OFFERED DURING THE FALL SEMESTER AT TEXAS TECH. THE COURSES ARE OPEN TO ANYONE TEN YEARS OF AGE OR OLDER AND WILL MEET ON TUESDAYS AND THURSDAYS FROM 5:30 TO 7 P.M. THE BALLET SHORT COURSES WILL BEGIN SEPTEMBER 5TH AND ENROLLMENT IS LIMITED. FOR ADDITIONAL INFORMATION CONTACT PEGGY WILLIS AT 742-3361 OR 742-3371.

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CONTACT: Heinrich H. Steiner

LUBBOCK--If you are a senior citizen and sometimes frustrated about problems you encounter in obtaining legal rights and considerations especially designated for you, don't give up.

At Texas Tech University a special training program, sponsored by the Area Office of Aging, has been conducted to attempt to insure older citizens better legal attention. This week more than 15 selected persons attended a seminar designed to train them as community service advisors.

These advisors will advise the elderly about their rights in the areas of Medicare, social security benefits, food stamp programs, community education, nursing home advocacy and related fields.

The advisors are in the same age group as the persons they serve, and most have already served as volunteers in community services. According to seminar instructor Doug W. Richnow of Austin, representing the Texas State Bar, these characteristics help the advisors to communicate openly and freely.

The advisors are trying to contact interested persons informally through meetings in senior centers and responding to individual recommendations.

"Many of our participants have already demonstrated leadership qualities." Richnow said, "Among them are a former university professor and a retired attorney."

-more-

legal aid for seniors/add one

Richnow pointed out that about 70 percent of all legal problems with which senior citizens deal are related to governmentally administered programs and that many retired people have become fearful and mentally and emotionally strained while pursuing their rights.

"Our advisors are dedicated to cut the red tape and to restore confidence and trust. They do not work in a legal service office and do not work under the supervision of an attorney," Richnow said. "Our people clarify and explain complicated or diffuse matters and problems and show ways and directions to professional assistance."

The program of the volunteers, presently backed by six months' funding from the Area Office of Aging, will probably receive further aid.

The office, part of the South Plains Association of Governments, has recently extended its activities by supporting a Center for Studies in Aging at Texas Tech. This center has functioned as a coordinator for the community service advisor program.

More information may be obtained by calling the Office of Aging during business hours at 762-8721.



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CONTACT: Marcia Lundy

ATTN: Agricultural Editors

LUBBOCK--Increasing interest in High Plains dairies is a major reason for improvements and growth in the dairy science program at Texas Tech University, according to Mark Hellman, DVM, program director.

Dr. Hellman attributed the interest to easy availability of grain and markets and to good climate.

New dairy facilities at the College of Agricultural Sciences field laboratory at New Deal are now operational, though it may be six to eight months before cows are back at top milking levels, Hellman said.

Before the move to New Deal the rolling herd average was more than 17,000 pounds of milk per cow for the last measuring period of 305 days, compared with the national average of 12,000 pounds.

Main feature at the new facilities, Hellman said, is modernization. At the old milking parlor on campus one person could only milk 20 cows per hour.

The new facilities, built in a double four herringbone pattern, allow one person to milk out 40 cows per hour. The double four herringbone involves milking four cows on each side of a pit, with the cows side-by-side. The old method put the cows head to tail and involved much more walking and time for the milker.

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This increase in labor efficiency also makes possible growth in herd size. Hellman plans to increase the herd, now about 70 head, to around 100 head of mostly Holsteins.

Another advantage of the new facilities is the liquid manure flushing system. Cleaning the old barns meant taking a hose to them manually. In the new system 2,100 gallons of water are allowed to run through, beginning with the dairy and continuing through the milking parlor and approach lanes to the holding pens, which completely flushes out the manure.

After it leaves the barn area, the manure passes over a solids separator, a screen which separates out the solids and allows liquids to continue on to a holding reservoir. The silt settles out and the remaining liquid is used as irrigation water. Hellman plans research on uses for the solids left, including use as bedding or fertilizer.

"This flushing system opens up possibilities of research for us to discover means of dealing with the waste materials, which have always been a problem in dairies," Hellman explained.

Another new addition is a two-vacuum milking system.

If a cow is excited or nervous when first hooked up to the milking machine, her milk will not flow easily. With the old milking machines, operating at 15 inches of vacuum, this could be a problem, since the machine would not automatically shut off or reduce pressure if the milk was not flowing. Too much vacuum can cause mastitis, or inflammation of the udder.

The new system begins at only 10 inches of vacuum. If the cow is not milking properly, the machine will not normally cause damage. Once the cow's milk begins to flow easily, the machine will automatically kick up to 15 inches of vacuum. Once the cow is milked, the machine

again drops to 10 inches of vacuum. A light flashes for each cow to indicate when the milk is flowing.

"This is a good learning system because it helps prevent injury to the cow if a beginning student is not milking her out properly," Hellman said.

New facilities also allow for grouping cows according to normal milk production. This prevents cows from finishing much sooner or much later.

The system also weighs the milk from each cow. This increases research possibilities and can show when a cow is on the verge of being sick when her normal milk level drops. Previously, only physical observation indicated when a cow was dropping off in production.

Once the milk is gathered, it goes immediately through a plate cooler, reducing the temperature from the cow's body heat of approximately 100 degrees Fahrenheit to 34 to 38 degrees F. in only one minute. The old system sent the milk directly to the holding tank, hooked up to a cooler. The cooling process, usually requiring two to three hours, increased possibilities of bacteria growth.

"All these features don't really help Tech as far as profit--- we still get the same price," Hellman said, "but it does set a good example for the area. As the university representing the area if we produce a low-quality product, it damages the reputation of all the area dairies.

"Even though we are small, comparatively speaking, we try to operate our dairy as if it were a large commercial operation to demonstrate the possibilities for the dairy industry in the High Plains."

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The system also weighs the milk from each cow. This increases research possibilities and can show when a cow is on the verge of being sick when her normal milk level drops. Previously, only physical observation indicated when a cow was dropping off in production.

Once the milk is gathered, it goes immediately through a plate cooler, reducing the temperature from the cow's body heat of approximately 100 degrees Fahrenheit to 34 to 38 degrees F. in only one minute. The old system sent the milk directly to the holding tank, hooked up to a cooler. The cooling process, usually requiring two to three hours, increased possibilities of bacteria growth.

"All these features don't really help Tech as far as profit--- we still get the same price," Hellman said, "but it does set a good example for the area. As the university representing the area if we produce a low-quality product, it damages the reputation of all the area dairies.

"Even though we are small, comparatively speaking, we try to operate our dairy as if it were a large commercial operation to demonstrate the possibilities for the dairy industry in the High Plains."



# Texas Tech News

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Residence telephones: Jane Brandenberger, Director, 829-2108 / Bea Zeeck, Associate Director, 296-7125 / Dan Tarpley, Manager, News Bureau, 792-5596

CONTACT: Heinrich H. Steiner

LUBBOCK--John L. Loudat, son of Mr. and Mrs. Edward W. Loudat of Roswell, was graduated with highest honors this spring from Texas Tech University. He received a Bachelor of Arts degree in Psychology.

This year, Texas Tech has an enrollment of more than 22,000 students. They study in six different colleges, the School of Law and the School of Medicine. The colleges are, Agricultural Sciences, Arts and Sciences, Business Administration, Education, Engineering and Home Economics.

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10-8-17-78

CONTACT: Jane H. Brandenberger

FOR IMMEDIATE RELEASE

Robert L. Pfluger, chairman of the Board of Regents of Texas Tech University and the School of Medicine, today announced the appointment of board standing committees for 1978-'79.

Pfluger is a San Angelo rancher.

The executive committee, to be chaired by Pfluger, will be composed of Roy K. Furr, board vice chairman and president of Furr's Inc., of Lubbock, and Dr. Judson F. Williams, immediate past board chairman and El Paso management consultant, investments.

Clint Formby, Hereford-based partner in various Texas radio stations, will chair the academic and student affairs committee. Members include J. Fred Bucy Jr., president of Texas Instruments and Dallas resident, and Charles G. Scruggs, also of Dallas and editorial director of "Progressive Farmer."

Named to the chairmanship of the campus and building committee is A. J. Kemp Jr., executive vice president of Texas Livestock Marketing Association and the National Finance Credit Corp. in Fort Worth. James L. Snyder, Baird rancher, and Furr will serve as members.

Chairman of the finance committee is Bucy, with members including Don R. Workman, Lubbock rancher, and Furr.

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tech board committees / add 1

Snyder will chair the public affairs, development and university relations committee. Scruggs and Williams will serve as members.

Chairman of the athletic affairs committee is Workman, with Formby and Kemp as members.

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11-8-18-78

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CONTACT: Becky Patterson

LUBBOCK--Registration for the fall semester at Texas Tech University is scheduled for Thursday, Aug. 31, and Friday, Sept. 1, in the Lubbock Municipal Coliseum.

Individuals may register at assigned times during the period from 8 a.m.-5 p.m., Thursday, and from 8 a.m.-6 p.m., Friday.

Persons unable to register during the assigned times may register beginning Tuesday, Sept. 5, in the Registrar's Office at Texas Tech and through the departments offering the courses the students desire to take.

Registration materials for the fall semester were distributed by mail two weeks ago, according to the Registrar's Office.

Classes begin at 7:30 a.m., Tuesday, Sept. 5, following the Monday Labor Day holiday. Final examinations will be Dec. 18-22.

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12-8-18-78

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CONTACT: B. Zeeck

LUBBOCK--The National Science Foundation has announced a grant of \$87,000 for continuation of archeological studies at the Lubbock Lake Site.

The grant was awarded to provide 24-month support of the work of Dr. Eileen Johnson whose research emphasis is on "cultural adaptation to ecological change on the Llano Estacado."

The Lubbock Lake Site research has been conducted through The Museum of Texas Tech University. The current project began six years ago and traces events at the site for the past 12,000 years.

While the overall goal is the relationship of culture and environment, this covers individual studies of the flora and fauna of the area from the time Clovis man butchered horse and ancient bear at the site to the time of the George Singer store, the earliest structure built at the site by Lubbock pioneers. The changing geology also is under study, including the times when the site was a lake, marsh, a running stream, or drought stricken.

In Johnson's reports, all of the various features of soil development, animal and plant life and man's activities are interwoven to provide a continuing picture of human adaptation to



lls/add one

the environmental changes.

During the 1978 dig, primary discoveries included the first evidence of Apache inhabitation of the Llano Estacado in the early 16th and 17th centuries when the Comanches were pushing the Apache tribes to the Southwest. While historians have known that this happened, physical evidence of the Apache on the High Plains had not been found.

At the Plainview level, archeologists working under Dr. Johnson also discovered additional evidence of a peculiarity attributed to Southern Plains Indians, their necessity for developing dual purpose tools. These were stone implements which were used not only to kill game but were then reshaped and sharpened to butcher animals. Johnson tentatively is attributing this practice to the simple fact that the Indians had no ready access to new stone to make all the tools they needed.

The archeological process at the Lubbock Lake Site is relatively new and more scientific than earlier digs in that all material dug from the site is screened, sifted, washed and studied in minute detail. In addition there have been geological studies and pollen studies to give scientists a clear understanding of environmental and climatic changes which have occurred over the eons.

"We're interested in more than the life style alone," Johnson said. "We study the evidence to determine why certain activities took place. We want to know what factors in the environment influenced the cultures we find at the Lubbock Lake Site."

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Previous work at the site has been funded by the National Geographic Society, Center for Field Research (EARTHWATCH), the Texas Historical Commission (National Register Program), and the city and county of Lubbock.

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13-8-18-78

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CONTACT: Kim Palmer

LUBBOCK--The watercolor program of the Art Department of Texas Tech University has received a \$300 scholarship from the American Watercolor Society. Texas Tech is one of four schools in the nation to receive scholarship money from the society.

The society offers scholarships for outstanding university and college watercolor programs, according to Ken Dixon, assistant professor of art. Texas Tech received the award on the basis of its course offerings in watercolor, the quality of available instruction and the number of students enrolled in the courses, Dixon said.

The program offers five levels of course instruction to approximately 100 students each semester.

The award money will be used for student scholarships. An open competition for watercolor portfolios will be sponsored by the Art Department early in the fall semester to determine student eligibility for the scholarship money. The competition is limited to full-time Texas Tech students.

For further information contact: Ken Dixon, 742-2964, room 210, Architecture Building; or the Art Department, 742-3825.

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CONTACT: Marcia Lundy

ATTN: Agricultural Editors

LUBBOCK--Proper field preparation and knowledge of vegetable survival after heavy winds and wind-blown sand can help save a farmer considerable time and money spent in replanting.

Dr. John D. Downes, professor of horticulture and co-director of the vegetable research program at Texas Tech University, is studying plant resistance to wind and the effect of wind velocities and duration.

A leading question for the farmer, Downes said, is how the plant will respond to the damage should it survive. Knowing which crops can still produce after wind damage can help save a farmer considerable time and expense in replanting.

Downes and his associates have found that, in general, the most susceptible vegetable crops to blowing sand and wind, in order from most to least susceptible, are carrots, peppers, cabbage, cucumbers, onions and cowpeas. Cotton is more resistant than cabbage to wind and wind-blown soil, but less resistant than cucumbers, Downes said.

In fact, Downes said, research has shown that cucumber and cowpea yields may actually be stimulated to a degree by wind damage, as a result of increased numbers of flowers per plant,

-more-



vegetables/add one

following destruction of the tip of the main stem.

Downes said it is the wind-blown soil which kills young plants. Usually, wind without sand will only reduce the rate of plant growth.

"The plant is most susceptible to wind and wind-blown soil injury in its earliest stages of growth," Downes said. "If the crop survives the seedling stage, it will generally be better able to withstand sand and wind injury."

Downes suggested several ways farmers could help stabilize the soil to prevent it from eroding and damaging newly-sprouted plants.

One of the best ways to prevent blowing sand, he said, is to plant in heavier soils such as clay loam, on which the bulk of High Plains vegetables are grown. South of Hereford, though, much of the soil is sandy enough to be subject to moderate to severe wind erosion, Downes said.

Another method leaves as many large clods as possible in the field after plowing. Plowing in the winter and leaving large clods can help prevent blowing dust later, though some soil moisture may be lost, Downes said, where the crop and seedling moisture requirements are heaviest. The clods should also be left intact after planting.

Chemical stabilizers applied over the seeded rows may substantially reduce soil erosion and blowing soil.

"Unfortunately, however, none of the known chemical compounds endure long enough at economic rates of application to solve the erosion problems," Downes said.

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Mulches, such as gin trash and wheat straw, applied over the newly-planted crops, also help decrease the possibilities of blowing soil. Without solid anchoring in the soil, though, the mulches tend to be blown away in strong winds, or to accumulate drifting soil, creating secondary problems, Downes added.

Two disadvantages of mulches are the difficulty in seeding through the anchored covers and in controlling the weeds usually present in mulches. Herbicides can help with the second problem, but may not be strong enough to completely rid the crop of weeds.

Planting winter wheat in the fall to provide a strip wind break at planting time when blowing sand is most prevalent is another possible way to reduce erosion.

Seeding in shallow furrows rather than on top of the beds and maintaining good soil moisture may help reduce wind erosion and increase seedling survival, Downes said.

By planting later than normal, though the yield may be slightly reduced, crops may stand a better chance of missing the worst of the blowing dust.

Plant survival depends on wind velocity, duration, amount of blowing sand present, plant age and plant type, he said.

None of the methods by themselves can singly prevent wind or blowing dust damage, but in combination they may help a farmer in the High Plains reduce the necessity of replanting.

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TEXAS TECH BOARD OF REGENTS CHAIRMAN ROBERT L. PFLUGER OF SAN ANGELO TODAY ANNOUNCED APPOINTMENT OF BOARD STANDING COMMITTEES FOR THE COMING ACADEMIC YEAR. THE EXECUTIVE COMMITTEE, CHAIRED BY PFLUGER, WILL BE COMPOSED OF ROY K. FURR OF LUBBOCK, VICE CHAIRMAN, AND DR. JUDSON F. WILLIAMS OF EL PASO, IMMEDIATE PAST CHAIRMAN. CLINT FORMBY OF HEREFORD WILL HEAD THE ACADEMIC AND STUDENT AFFAIRS COMMITTEE WITH J. FRED BUCY JR. AND CHARLES G. SCRUGGS, BOTH OF DALLAS, AS MEMBERS. A. J. KEMP JR. OF FORT WORTH IS CHAIRMAN OF THE CAMPUS AND BUILDING COMMITTEE, WITH JAMES L. SNYDER OF BAIRD AND FURR AS MEMBERS. BUCY HEADS THE FINANCE COMMITTEE WITH DON R. WORKMAN OF LUBBOCK AND FURR AS MEMBERS. SNYDER WILL CHAIR THE PUBLIC AFFAIRS, DEVELOPMENT AND UNIVERSITY RELATIONS COMMITTEE. SCRUGGS AND WILLIAMS ARE MEMBERS. WORKMAN HEADS THE ATHLETIC AFFAIRS COMMITTEE WITH FORMBY AND KEMP AS MEMBERS.

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16-8-18-78