Aggies Play Host To Frogs And Mustangs This Week-end

Cadets Will Still Be Trying to Win First Conference Game in Two Years

Aggieland's downtrodden basketball team will be trying again Friday and Saturday nights, trying to win their first conference game in two years. Texas Christian University's Horned Frogs will come to DeWare Field House Friday night and Southern Methodist University's Mustangs will play here Saturday to round out a full week-end of basketball.

T.C.U. won their opening conference game last Friday when they nosed out the Texas Longhorns, 39-38. The Frogs have won only three out of 16 games thus far this year, but they have turned in some pretty good games and did not look too bad while losing.

Coach Hub McQuillan's Frogs have an inexperienced team composed mostly of freshmen, but they have been strengthened since their football season ended. Two footballers, Norman Cox and Merle Gibson, have recently joined the basketball squad. Both boys stand six feet two and should help the Frogs no end.

S.M.U. also won their first conference game last week-end at the expense of Texas, beating the Orange and White 58-41. The Mustangs have broken even in ten games thus far, scoring 487 points to 495 for their opponents.

Milton Cherno, forward, has been the big gun for the Aggies in most of the pre-season games, and was second to Bill Henry for high point man last Saturday night in the game with Rice. Cotton Howell has returned from the East-West game which was played New Year's Day in San Francisco and should help out greatly when he has had a few practice sessions.

Both games will start at 7:30, and Coach Manning Smith will likely start the following lineup for the Aggies: Cherno and Collins, forwards; Ellis, center; and McCormick and Weinbaum, guards.

SMU Game Will Be Broadcast by WRR

Station WRR of Dallas will broadcast the Aggie-SMU basketball game at 7:30 Saturday night. Station WRR broadcasts all SMU games.

It was in the first battle of the Civil War, known as the Battle of Bull Run, that General "Stonewall" Jackson received his nickname.

DFC Awarded Aggie Flyer For Bombing Raids In Germany

Flying as first pilot in a veteran Corsica-based B-25 group operating against German targets in northern Italy, First Lieutenant Lawrence J. Payne, whose parents, Mr. and Mrs. T. H. Payne, reside at 3732 Modlin Street, Fort Worth, Texas, has been awarded the Distinguished Flying Cross for extraordinary achievement in aerial flight.

Lt. Payne, who has flown more than 50 combat missions in his Mitchell bomber, received the award for his outstanding flying in an attack against a railroad bridge at Nervesa, Italy on November 5. Just as the bomb run was begun, shell fragments from an intense anti-aircraft barrage badly damaged his plane, nearly rocking it from his control. The citation reads in part:

"Displaying great courage and superior flying ability in the face of this accurate barrage, Lt. Payne maintained his crippled plane on course, thereby enabling his bombardier to release his bombs with devastating effect upon this vital objective."

Lt. Payne was graduated from Arlington Heights High School and attended Texas A. & M. before entering the service. He arrived overseas in May and was assigned to a veteran B-25 unit which has played a major role in all the campaigns in the Mediterranean. This group broke a world's record in bombing accuracy when, during the months of September and October, it flew 68 missions to place 9 out of every 10 bombs in the target area for an acuracy of better than 90 per cent.

Lt. Payne has also been awarded the Air Medal with 10 oak leaf clusters.

General Bee conferred the title of 'Stonewall" on General Jackson, when he said "Look! There stands Jackson, like a stone wall!", during the Battle of Bull Run.

The first battle of the Civil War was fought near Washington, D. C. Hundreds of sightseers, with picnic baskets, went out to watch the fun. It was not amusing!

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—SHORT COURSE—

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the heavier farm tasks.

While farmers, including dairy operators, are working longer hours than was the custom in prewar years, Hohn, Hickerson and Bentley made it plain that this willingness to devote individual effort to a greater extent would not fill the gap between a greater output on one hand and fewer working units on the other. Too, there is less machinery capable of doing farm drudgery than was the case before we entered the war.

The session on farm labor saving devices included the demonstration and explanation of several units that have been forced on the farming industry by a combination of these circumstances.

Dairy fieldmen from Kansas, New Mexico, Louisiana, Arkansas, in addition to Texas operators attended the banquet given Monday night in Sbisa Hall. Bryan Blalock, dairyman from Marshall and president of the Dairy Products Institute of Texas, traced the change in our theory of government, hailing the wisdom of substituting human rights over property as the most precious heritage the United States holds for its people.

Dairy fieldmen and the industry as a whole are going to have to adjust to changing conditions after the war, M. E. McMurray, manager of the Texas Dairy Products Association, warned. Resourcefulness and salesmanship were listed as the most essential factors these individuals will have to carry with them into the peace era, with more consideration to the wishes and whims of the people with whom they are dealing.

Various phases of feed production and the balancing of feed requirements needed by the dairy animal were covered in addresses made on the program for Monday afternoon and Tuesday forenoon. These covered the activities of the War Food Administration by H. J. Solomon, and the duties and mode of operation of the AAA by P. C. Colgin.

In each mention of basic feeds green pastures were said to be the most complete and most economical of all for livestock. "Green Acres" was the subject of a film produced by the National Fertilizer Association shown with running comments by R. R. Lancaster, pasture specialist for the Extension Service. Nutritive values of dairy feeds were enumerated by Dr. P. B. Pearson of the Texas Agricultural Experiment Station; P. T. Montfort, Department of Agricultural Engineering, handled recent developments in hay and grain drying; development of a sound breeding program was traced by A. L. Darnell, professor of Dairy Husbandry; O. C. Copeland, chief of the Experiment Station division of Dairy Husbandry, discussed the feeding of dry and lactating cows, and the importance of D. H. I. A. Testing was shown by O. W. Thompson of the Extension Service.

Rounding out the forenoon program Tuesday were data on maintaining a sanitary water supply for dairy herds by J. H. Sorrels, professor of Municipal and Sanitary Engineering.

Slated for discussion during the closing meeting Tuesday afternoon were: Cattle Disease Prevention by Dr. F. P. Jaggi of the School of Veterinary Hygiene; Postwar Plans for Dairy Buildings by Prof. A. L. Darnell; and a Quality Milk Production Clinic run by Harold E. Meister of the Dairy and Poultry Inspection division of the War Food Administration; Charles R. Burleson, dairy field service division of Johnson and Johnson Co.; Dr. W. S. Arbuckle, Agricultural Experiment Station; P. T. Montfort and A. V. Moore.

Over 100 dairy fieldmen representing Texas dairy products manufacturers, creameries and cheese plants registered for the two-day short course, which is under the direction of A. V. Moore, professor of Dairy Husbandry. Its main purpose is to acquaint these fieldmen with newest developments in all phases of dairy and milk production, and was instituted at the request of the manufacturing interests cited.

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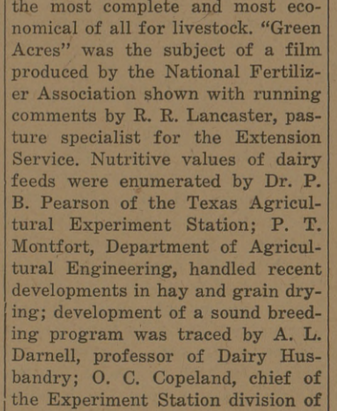


BATTALION Sports

Season's Box of Aggie's Games

For those of you who are interested in statistics the following information is published. Compiled below is the individual scoring of each man, how each score was made, and the number of games each player has played in.

Player	Games Played	Field Goals	Free Throws	Total Points
Ken Abrams	9	2	1	5
Tom Blackstone	9	5	2	12
Jim Cashion	4	1	0	2
Milton Cherno	11	41	9	91
Bob Collins	8	3	2	8
Tom Daniel	1	0	0	0
Hub Ellis	10	12	5	29
Bill Fincannon	6	2	0	4
Hilton Hall	1	0	0	0
Curtis Homeyer	7	2	1	5
Cotton Howell	2	1	0	2
Bill McCormick	11	31	25	87
Tommy Murnane	2	0	0	0
Don Nicholas	3	0	1	1
Jim Parmer	1	0	0	0
Bob Sapp	3	4	3	11
Gene Spires	6	6	0	12
Bill Tucker	4	2	1	5
Jim Voss	6	1	0	2
Charlie Weinbaum	11	16	12	44
Oscar White	9	12	8	32
Totals		141	70	352

Mechanical Wizard Solves Complicated Math Problems

Mathematical problems which would take several years to work by conventional methods are now being solved in a few days by use of a recently perfected differential analyzer.

This wizard machine, consisting of an interconnected system of shafts, motors and gears, employs mechanical elements for addition, subtraction, multiplication and division, and electro-mechanical elements for more complex functions. Practically all of the gears and couplings are removable and must be set up in a different arrangement for each new problem.

According to scientists, almost any physical phenomenon can be expressed in terms of differential equations. Since this analyzer is fundamentally a tool permitting rapid solution of such equations, it can be used to solve many problems of an important nature whose correct answers were until now only guessed at.

Most important element of this new analyzer is a polaroid photoelectric system of unique design which General Electric developed. Fourteen of these highly sensitive devices are installed on the machine, thus permitting the accurate, speedly solution of differential equations requiring as many as fourteen simultaneous integrations.

In appearance the G-E analyzer resembles a long maze of shafts and gears with four input tables and two output tables extending to one side. When the machine is in use, the variables in the differential equations being solved are represented by the rotation of shafts in the machine. These are connected with mechanical pens on the output tables. As the shafts speed ahead to solve the equation, they move the pens which, in turn, plot an accurate curve in accordance with the quantities worked out by the continuous movement of the shafts. Interpreted correctly, this curve gives a graphic solution of the problem.

Before the analyzer is put into operation, the problem must first be set up on the machine. To do this, necessary equations are arrived at and various shafts and gears are interconnected so that all the quantities in the problem will be represented. Then, after the wizard machine is set to work, technicians may grind into it by means of the input tables required mathematical functions, if more are needed, to obtain a final solution.

Differential analyzers were first developed by Dr. Vannevar Bush, formerly of Massachusetts Institute of Technology. Later the Moore School of the University of Pennsylvania and M. I. T. made modifications and further improvements. When General Electric began construction of its analyzer, it patterned the mechanical part largely after those already in existence, adding some unique features of its own development. Most important of these was the photoelectric follow-up system used with the intergrator. This improved the performance of the analyzer by attaining a shorter solution time with a greater degree of accuracy.

By making use of such mechanized mathematics, engineers have been studying many complex physical problems, a great number of which are related to the war. Applications made of the machine so far have included such problems as radar, hydrodynamic flow, rotating machinery, airplane stresses and speed governors. According to engineers, continuous availability of it in the future will result in greater knowledge and better understanding of many technical problems which were hitherto unsolved.

Adamson Asks For Swimmers to Meet

All men interested in swimming be at the Gym Monday, January 15, at 5:00 p.m. Art Adamson has announced that swimmers and especially divers should be there. He is forming the 1945 Aggie swimming team. Art would like to have as many men out for the team as possible, in order to have as good a team this year as we have always had.

San Angelo Lieut. Wins Air Medal

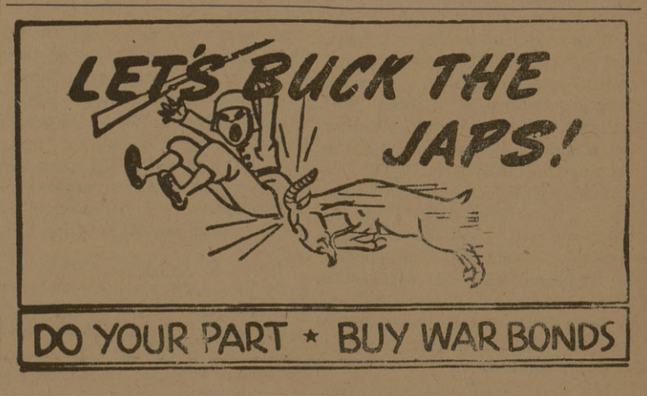
AN EIGHTH AIR FORCE FIGHTER STATION, England.—First Lieutenant Edward R. Haydon, of 52 West 25th St., San Angelo, Texas, an Eighth Air Force fighter pilot, has been presented the Air Medal.

The Texan received the award from the 357th Fighter Group commanding officer, Lieutenant Colonel Irwin H. Dregne, of Viroqua, Wis., at an outdoor ceremony here.

"For exceptionally meritorious service in aerial flight over enemy occupied Continental Europe. The courage, coolness and skill displayed by this officer reflect great credit upon himself and the Armed Forces of the United States."

Lieutenant Haydon recently shared in the downing of a jet propelled Messerschmitt 262 over Magdeburg, Germany, and destroyed a Focke Wulf 190 parked on a Luftwaffe airfield near Munich.

A former student of Texas A. and M. College, College Station, Texas, Lieutenant Haydon enlisted in the AAF Jan. 1, 1942.



De Bulls Pay a Social Call