



STUDENT TRI-WEEKLY NEWSPAPER TEXAS A. & M. COLLEGE The Battalion, official newspaper of the Agricultural and Mechanical College of Texas and the City of College Station, is published three times weekly, and issued Tuesday, Thursday and Saturday mornings.

Entered as second class matter at the Post Office at College Station, Texas, under the Act of Congress of March 3, 1879.

Subscription rate \$3 per school year. Advertising rates upon request.

Represented nationally by National Advertising Service, Inc., at New York City, Chicago, Boston, Los Angeles, and San Francisco.

Office, Room 5, Administration Building. Telephone 4-5444.

1942 Member 1943 Associated Collegiate Press

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Experiment Work Done Recently on Cheese Ripening

Results Show Short Cure Cheese Method Takes Four Weeks Some of the first experimental work reported on the problem of the ripening of cheese showed that butter flavor was developed when cheese was ripened at a temperature of approximately 40 degrees F., and also that cheese could be held in storage a longer time with more desirable results at this temperature. Today the cheese factory operators and cheese dealers are not as much interested in being able to store cheese for a long period of time as they are in hastening the ripening, thereby decreasing the span of time between the production of the milk and the ultimate consumption of the cheese. This is especially true here in the South, as the high cost of cold storage causes the dealer to shorten the ripening period. Any modification of the manufacturing and curing methods which would produce a higher quality short cure cheese would therefore be highly desirable.

This investigation was conducted by the Texas Agricultural Experiment Station in cooperation with the Department of Dairy Husbandry. A preliminary investigation was conducted in 1936 and 1937 to obtain information concerning the effect of variations in the manufacturing and ripening methods upon the quality of short cure cheese. In a series of several paired lots of cheese, the effect of the amount of rennet, amount of salt, method of manufacture, ripening temperature and various curd treatments were studied. After the preliminary investigation was completed, a more comprehensive study was made of the factors that proved most important in producing the highest quality cheese.

The use of a large amount of rennet in the cheese making process and the washing of the curd proved most effective in producing a cheese with a superior body. The temperature at which the cheese was ripened was of ultimate importance in influencing the rate of flavor development and the score of the cheese. The amount of rennet used was an important factor in the production of a short cure cheese as additional amount of rennet extract, up to as much as eight ounces per one thousand pounds of milk, produced more rapid ripening and increased the score value of the cheese at ripening temperatures as high as 70 degrees Fahrenheit. Cheese manufactured by the stirred curd method ripened more rapidly than did the cheese manufactured by the

regular cheddar method. The stirred curd method may have some value in the manufacture of a rapid cure cheese, but cheese made by this method did not reach as high a maximum score as did cheese made by the cheddar method. There was no advantage obtained by developing a higher acidity during the manufacturing process; however, washing the curd improved the quality of the cheese and increased the rate of ripening.

The ripening temperature was increased to a maximum of 70 degrees F. with desirable results. The rate of flavor development was greatly increased by raising the ripening temperature; however, a prolonged ripening time was necessary to secure a high body score. The rate of ripening had a direct effect upon the quality of the cheese. Ripening time was greatly decreased at higher temperatures, and in many cases, higher rates of ripening resulted in cheese of corresponding lower score value. When cheese was ripened for four, eight and sixteen week periods, the highest scoring cheese for each period was that ripened at 60 and 70 degrees F., plus an initial storage period at 45 degrees F. Cheese ripened at 80 degrees F. was inferior in most cases. In the production of a short cure cheese a ripening period at a higher temperature for flavor was desirable, and an additional storage period was beneficial to body development. The best cheese produced within a four weeks period was ripened for two weeks at 45 degrees F. and two weeks at 60 degrees F. The best cheese produced within an eight weeks period was ripened two weeks at 45 degrees F. and six weeks at 60 degrees F.

The results of this investigation are significant in that they indicate that a high score short cure cheese can be produced for marketing within a four weeks period by increasing the amount of rennet used, and by holding the cheese at a temperature of 60 to 70 degrees F. during a portion of the ripening period.

Farm Implements Leave Ration List

Feed grinders and crushers have been removed from the ration list, the War Food Administration has notified the A. & M. Extension Service. Both hammer and burr mills now are unrationed, according to the order.

The same announcement revealed that listers with planting attachments and middlebushers now are under rationing control. Rationing of farm machinery now is administered by the Agricultural Adjustment Agency on state and county levels.

Pressure cookers for food preservation also have been removed from the ration list.

As the World Turns

By Charles G. Whitwell

The trend of official Filipino thinking about postwar relations between their country and the United States was indicated by Sergio Osmena, Vice President of the Philippines in a speech made Sunday. The speech was made at ceremonies commemorating the forty-seventh anniversary of the execution of Jose Rizal, most famous of all Filipino heroes, by the Spaniards.



Osmena stated that the maintenance of "adequate naval and air bases" in the Philippines after the war by the United States would "assure the mutual protection" of the Islands and of the United States. "To the Philippines Islands such plans are vital to its liberty and growth. To the U. S. such plans mean that no enemy may approach your western shores."

The No. 2 Filipino leader in exile also expressed the need for post war cultural and political collaboration. As close allies the United States and the Philippine Islands could go a long way toward building up a new world of peace, justice, democracy, and freedom. Such sentiments indicate a decided change in Filipino sentiment regarding their relations with the United States. In their demands for independence they insisted on complete severance of all political ties with us. That was to have been their status after July 4, 1946. They were also willing, for a while, to give up all economic privileges their connections with us had given them. The gradual removal of all such privileges was provided

for in the Hawes-Cutting act of 1934. Even the abandonment of our army post, including air fields, was desired and planned for. Such abandonment of our army post, including air fields, was desired and planned for. Such abandonment was under way by our forces as late as 1940. Only the naval station at Cavite and dry-dock at Olongapo were to be retained. Their final disposition was to be determined by later negotiations. Actually the fate of our naval establishments in the Philippine Islands was sealed by the naval treaty of the Washington conference in which we agreed not to further fortify these bases.

Assuming that the Philippine Republic will want the United States to establish, fortify, and maintain naval and air bases in the Philippines after the war, what will be the attitude of the government and people of this country? Has this war taught us that we should never have become mixed up in Asiatic affairs by accepting responsibilities there? Or has it taught us that we have responsibilities there that we must accept and take proper steps to meet?

Or will our reactions to Filipino overtures as made by Mr. Osmena be guided, in the future as they have in the past, by the narrower view of our own interests? We took these Islands originally, not out of a sense of duty to a helpless people fate had left on our doorstep, but as a key to greater commercial advantages in the Far East. We gave them their independence in 1935, not so much to keep a promise we had made them, as to appease powerful economic interests of this country. A lot will depend on what group is in power in this country when the time comes to answer these questions.

LISTEN TO WTAW 1150 k.c.

- TUESDAY, JANUARY 11, 1944 8:30—Breakfast Club—BN 8:45—Breakfast Club—BN 9:00—Sweet River—BN 9:15—Singo—BN 9:30—Baby Institute—BN 9:45—The Humbard Family—BN 10:00—Breakfast at Sardi's—BN 10:15—Breakfast at Sardi's—BN 10:30—Gil Martyn News—BN 10:45—Living Should Be Fun—BN 11:00—Spiritual Life—BN 11:15—Popular Music 11:30—National Farm and Home—BN 11:45—National Farm and Home—BN 12:00—Baukhage Talking—BN 12:15—Press Association News 12:30—Ted Malone—BN 12:45—Farm Fair with C. A. Price 1:00—Rodriguez and Sutherland—BN 1:15—Mystery Chef—BN 1:30—Ladies Be Seated—BN 2:00—Morton Downey—BN 2:15—My True Story—BN 2:30—My True Story—BN 2:45—Little Jack Little—BN 3:00—Blue Frolics—BN 3:15—Blue Frolics—BN 3:30—Time Views the News—BN 3:45—Brazos Valley Farm and Home 4:00—A. & M. Personnel Dept.—G. B. Wilcox 4:15—Know Your State—R. W. Steen 4:30—Sea Hound—BN 4:45—Dick Tracy—BN 5:00—Terry and the Pirates—BN

FEATURED ON WTAW



Listeners who tune in the BLUE Network for up-to-the-minute news on Sundays hear the "Weekly War Journal," with Paul Nelson, above, giving the latest war information received in New York. Broadcasts on this hour also originate from Washington, London, San Francisco and other points on the global front.

day... all of me... tired, sleepy and hungry... silly this Guard Duty... strictly extra-curricular... and in those Project houses... the Elite... Lucky Joes... all of them knee-deep in the state subconscious... wallowing in the glory of simulated death... mattress mauling... each and every one... and I'm out here... Boy, that hurts!... such self-sorrow and pity I've never had... I'm just a martyr, that's all... (enter the gushy sentimentality that is born of solitude)... but I must be doing somebody SOME good... there must be a reason I'm out here... Yep, that's it!... I'm the watch dog... the town crier, so to speak... the welfare of my buddies and our unit is in MY hands for these two hours... if Tony needs a doctor, it's up to me... if fire, robbery, any form of sabotage come to occur... I'm the Joe... Yep, I'm pretty important people... now my fatigue, my cold and hunger do not measure up in such a balance... sense of values, friend... that's what it is... I'm so consoled... wonder how far that train is going... how far in terms of that brick-stucco house on Strathallan Park???... the place I used to hang my hat... Oh! Well! I don't have my key... I couldn't get in if I WERE there... Yeah, pretty poor rationalization... but a resultant glow springs from such idle thinking... the family is together again... Bette and Gloria are home from school... Mom and Dad must feel rosy about that... the girls will have to cover for me... Mom will know and feel but she'll carry it inside... Yep, she's a great actress at times like this... at least, here is peace... those bright stars are an etching in serenity... no surrealism here... they show no positive criteria of hate and strife... that plane overhead is friendly aircraft... pretty thing isn't it... there is no alarm signal... no dash for cover... no snipers in these trees... no Red (?) Men or Jerries with itchy trigger fingers... these are our trees... submissive manifestation of the Created... the Natural... and yet, with every thump of my heart, some Joe, a guy like me perhaps... is paying the price—his sum and total—for me, my world and my liberal thinking... for that soldier, this "veil of tears" is just that... a panorama of pain... he'd give his bottom buck to be here... now... and I'm moaning... why do I now feel so hopelessly insignificant as I measure myself in the light of such a gigantic undertaking as War... a right

The Lowdown on Campus Distractions

By David Seligman

"Presenting Lily Mars" starring Judy Garland and Van Heflin, with Spring Byington and Fay Bainter will appear on the screen of Guion Hall today and Wednesday. This is a delightful backstage story with some fine settings and several good song numbers. There is a delicate play of emotions all

through the picture. The story concerns a very ambitious girl who can take it, a family of cute kids, and a man who falls in love in spite of himself. Through the genius of an excellent producer in the person of Joseph Pasternak, this picture has attained high standards in the entertainment field.

to live bought cheaply and with no extended effort is a spineless thing... a thing gained without sweat, blood or tears is a life empty and shallow... can I live with myself if I enjoy a world purchased by another's blood?... Are my pride and self-respect that expendable?... and yet, this short stint of duty is helping my country... you and me... ridiculous as it sounds... more consolation... in a petty job well done... Mother, leave that Service Flag right where it is... despite A. S. T. P... we'll be in there throwin' "in the deep clutch of circumstance"... and now, the thoughts of Henley's "Invictus"... and his punch line,—"I thank whatever gods may be for my immortal soul"... and from the sublime to the ridiculous... the blunt transition from the ideal to the real order... my relief on Post No. 3... some sleep... and warmth... and a concrete outlook to what we hope will be a darn concrete breakfast!

The Lowdown: Just below tops. Showing at the Campus on Tuesday and Wednesday is "Paris After Dark." The film stars George Sanders, Brenda Marshall, and Philip Dorn. The plot is built around the characters in the French underground situated in Paris. Sanders portrays the part of a doctor who is the connecting link of the organization with the outer world. Brenda Marshall is of course working in the system and is also interested in Sanders for personal reasons. Dorn is suspected as a traitor, but in the end he proves his loyalty.

The Lowdown: A pretty good show involving the same well-used plot of underground systems.

Guion Hall

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Campus

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3801st Sparkles By Jack Mondo

The Mental Meanderings of a Sentinel—its a cold, bleak night... black as pitch and alarmingly tranquil... and here I am... in the wee sma' hours of a new

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