(Programs listed in The State Journal are checked to the last possible moment. Changes may be made, however, at the discretion of stations and networks.)

What's on the Air

FREQUENCIES

WIBA	1310	WCFL	1000	WMAQ	670
WHA	970	WIBU	1240	WGN	720
KSTP	1500	WENR	890	WIND	560
WBBM	780	WTMJ	620	WLBL	930
WCCO	830	KMOX	1120	WLS	890

Comedians Butterworth, Lahr Will 'Visit' WIBA Programs

Charlie Butterworth and Bert Lahr, comedians; Janet Blair, actress; Cass Daley, songstress, and Maj. Ruth Cheney Streeter, director of the women's reserve, U. S. marine corps, will be guests on WIBA programs tonight. Cass Daley and Maj. Streeter will visit Bing Crosby's Music Hall program at 8 p. m. Charlie Butterworth turns out to be the matrimonial bureau's answer to Joan Davis' prayer on Rudy Vallee's program at 8:30 p. m. At 9 p. m. Janet Blair will add her charms to the Abbott and Costello show when Bert Lahr will substitute for Costello.

Other attractions tonight:

CHARLIE BUTTERWORTH
WIBA at 8:30 p. m.

* * * *

Discussion

6:15 p. m. — Vaughn S. Conway (WIBA): opens campaign for circuit judge.

7:30 p. m. — Town Meeting (WLS): Sir Norman Angell, Nobel prize winner; Norman Thomas socialist leader; Robert Lee Humber, attorney and author, and Dr. Lin Mousheng, editor, speakers; "What Peace Principles Can The United Nations Agree Upon Now?"

9:30 p. m. — March of Time (WMAQ): Sen. Harry Truman reports on his investigating committee; Sir Frederick Puckle, secretary of information for India, discusses India's plans to crush Japan.

◇ ◇ ◇

Drama

7:30 p. m. — Aldrich Family (WIBA): father's weather forecast results in Henry going picnicking while Mary plans a sleigh ride . . . **Death Valley Days** (WBBM): tale of Hadji Ali, who came to the U. S. from Smyrna as a camel driver and stayed to become a citizen.

◇ ◇ ◇

Music

8:30 p. m. — Spotlight Bands (WENR): Henry King.

11:15 p. m. — Music of the New World (WMAQ): the rise of the "virtuoso" in the Americas during 1850 to 1900.

12 midnight — Music You Want (WENR): Victor Light Opera Co. recordings of Gilbert and Sullivan's "H. M. S. Pinafore" selections.

Variety

7 p. m. — Fanny Brice (WIBA): daddy battles bewildering last minute income tax problems . . . **Grapevine Rancho** (WBBM): Basil Rathbone, guest.

8:30 p. m. — Stage Door Canteen (WBBM): Lawrence Tibbett, Billie Burke, George Jessel, and Jean Collins, guests.

9:15 p. m. — Gracie Fields (WENR): salutes the Brazilian search in Upper Amazon for wild rubber trees to supplement our rubber supply.

◇ ◇ ◇

Fridaytime

10 a. m. — Homemakers Program (WHA): Mrs. Lois J. Hurley, "Let's Talk It Over," Charlotte Wood, "Memoirs of Halide Edib."

2:30 p. m. — School of the Air (WBBM): propaganda as a vital war weapon is dramatized in "Words As Bullets."

3 p. m. — Latin American Institute (WHA): Octavio da Costa Eduardo, "The Negro in Latin America."

4:30 p. m. — Dr. Robert Redfield (WHA): dean of social science, University of Chicago, speaker.

WIBA Tonight

5:00 NBC Music by Shrednick
5:15 School and Home Music
5:30 News Edition
5:45 Sports Parade
5:55 News Report
6:00 NBC Waring Victory Tunes
6:15 Vaughn S. Conway
6:30 NBC Bob Burns
7:00 NBC Fanny Brice
7:30 NBC The Aldrich Family
8:00 NBC Music Hall
8:30 NBC Rudy Vallee
9:00 NBC Abbott and Costello
9:30 The Navy Show
9:45 Maritime Station
10:00 Night News Edition
10:15 BLU Raymond Gram Swing
10:30 Masterworks of Music
11:00 NBC News Report
11:05 NBC Three Suns Trio
11:30 NBC Tropicana
11:55 NBC News Report

WHA Tonight

5:30 Adventure Stories
5:45 Afternoon News
6:00 Organ Reverie
6:30 Masterworks of Music

Other Stations Tonight

5:00 Music at Five—WMAQ
5:00 Terry and the Pirates—WENR
5:15 Topnotch Bands—WBBM
5:15 Jimmy Allen—WENR
5:30 Malcolm Claire—WMAQ
5:30 Jack Armstrong—WENR
5:45 Capt Midnight—WENR
6:00 King's Jesters—WBBM
6:00 Dr Preston Bradley—WGN
6:00 Fred Waring WTMJ
6:15 Harry James—WBBM WCCO
6:30 Easy Aces—WBBM KMOX
6:30 Hollywood Theater—WTMJ
6:40 Five Minute Mystery—WMAQ
6:45 Mr Keen—WBBM KMOX
6:45 Joseph C. Grew—WMAQ
7:00 Singin' Sam—WGN
7:00 Grapevine Rancho—WBBM
7:00 Fanny Brice—WMAQ WTMJ
7:15 Lum and Abner—WLS
7:30 Ahoy America—WGN
7:30 America's Town Meeting—WLS
7:30 Death Valley Days—WBBM
7:30 Aldrich Family—WMAQ WTMJ
8:00 America's Town Meeting—WENR
8:00 Music Hall—WTMJ WMAQ
8:00 Gabriel Heatter—WGN
8:00 Major Bowes' Amateurs—WBBM
8:30 Treasure Hour of Song—WGN
8:30 Rudy Vallee—WTMJ WMAQ
8:30 Spotlight Bands—WENR
8:30 Stage Door Canteen—WBBM
8:55 Dale Carnegie—WENR
9:00 Abbott and Costello — WMAQ
9:00 The First Line—WBBM WCCO
9:00 Raymond Clapper—WGN
9:00 John Gunther—WENR
9:15 Sanders & Savage—WGN
9:15 Gracie Fields—WENR
9:30 March of Time—WTMJ WMAQ
9:30 Public Affairs—WBBM WCCO
9:30 Gracie Barrie Orch.—WGN
9:45 Nightcap Yarns—WGN
9:45 Frazier Hunt—WBBM WCCO
10:00 Most Honored Music—WENR
10:00 Fred Waring—WMAQ
10:15 March of Mercy—WTMJ
10:30—Rumpus Room (to 12)—WTMJ
10:30 Bob Burns—WMAQ
11:05 Jimmy Dorsey Orch.—WBBM
11:05 Art Kassel Orch.—WGN
11:15 Music of New World—WMAQ
11:15 Lew Diamond Orch.—WENR
11:30 Boyd Raeburn Orch.—WBBM
11:30 Russ Morgan Orch.—WENR
11:35 Blue Barron Orch.—WGN
11:45 Tropicana—WMAQ
12:00 Freddy Nagel Orch.—WGN
12:00 Night Watch (to 6)—WIND
12:00 Music You Want—WENR
12:00 Emile Petti Orch.—WMAQ
12:15 Eddy Howard Orch.—WGN
12:30 Glen Gray Orch.—WENR
12:30 Beverly Hills Trio—WBBM
12:30 Gracie Barrie Orch.—WGN
12:30 Pot Luck—WMAQ
1:00 Swing Shift (to 3)—WENR
1:00 Joe Reichman Orchestra—WGN

WIBA Friday

MORNING

6:30 Morning Parade
7:00 NBC World News
7:15 Musical Clock
7:30 State Journal News Edition
7:50 Musical Clock
8:30 Campbell Sisters
8:50 Betty
9:00 NBC Robert St. John
9:15 NBC The O'Neills
9:30 Uncle Sam
9:45 BLU Gene and Glenn
10:00 NBC Road of Life
10:15 NBC Vic and Sade
10:30 Linda's First Love
10:45 The Editor's Daughter
11:00 News Edition
11:15 The Home Front
11:30 Campbell Sisters
11:45 The Farm Roundup

AFTERNOON

12:00 News Report
12:05 Farm Roundup
12:30 Noon News Edition
12:50 Market Reports
1:00 Melody Moments
1:30 Perpetual Notions
2:00 Virginia Graham
2:15 NBC Ma Perkins
2:30 NBC Pepper Young's Family
2:45 NBC Right to Happiness
3:00 BLU Club Matinee
3:15 NBC Stella Dallas
3:30 NBC Lorenzo Jones
3:45 NBC Young Widder Brown
4:00 Campus Jamboree

EVENING

5:00 NBC Chas. Dant's Music
5:15 School and Home Music
5:30 News Edition
5:45 Sports Parade
5:55 News Reports
6:00 NBC Waring Victory Tunes
6:15 NBC News of the World
6:30 Dinner Melody
6:45 NBC H. V. Kaltenborn
7:00 NBC Concert Hour
7:30 NBC All Time Hit Parade
8:00 NBC Waltz Time
8:30 Truax Field Calling
9:00 NBC Tommy Riggs, Betty Lou
9:30 NBC To Be Announced
9:45 NBC Elmer Davis Reports
10:00 Night News Edition
10:15 Treasury Parade
10:30 Masterworks of Music
11:00 NBC News Report
11:05 NBC Paul Martin Orchestra
11:30 NBC Statler Orchestra
11:55 NBC News Report

WHA Friday

MORNING

7:30 Bandwagon
7:45 Morning News
7:58 WHA Program Review
8:00 Music You Want
8:30 Morning Melodies
9:20 News and Views
9:30 Rhythm and Games: Colleen's Jig
9:50 News of Wisconsin
10:00 Homemakers' Program: Let's Talf It Over, Mrs. Lois J. Hurley; "Memoirs of Halide Edib"—(Book Review), Charlotte Wood
10:45 French Program
11:00 Modern European History; Prof. Chester Easum
11:50 Noon Musicale

AFTERNOON

12:20 Noon News
12:30 Farm Program: Dairy Products and Lent, Gordon Crump: Question Box, Rupert Rasmussen
1:00 Chapter a Day
1:30 Book Trails: Jungle Book
2:00 Foreign Novels in Review
2:30 Music of the Masters
3:00 Latin American Institute: Octavio de Costa Eduardo
4:00 Alpine Melodies
4:30 Latin American Institute: Dr. Robert Redfield

EVENING

5:30 Adventure Stories
5:45 Afternoon News
6:00 Organ Reverie
6:30 Masterworks of Music

Other Stations Friday

MORNING

6:00 Farm Service—WLS
6:00 Breakfast Frolic—WJJD
6:00 Breakfast Time Frolic—WGN
6:00 Sunrise Special—WTMJ
6:15 Everett Mitchell—WMAQ
6:15 Morning Devotions—WLS
6:30 Ridge Runners—WLS
6:30 Family Bible League—WIND
7:00 Norman Ross—WMAQ
7:30 Wishing Well—WBBM
7:45 Amanda Snow—WLS
8:00 Your Neighbor—WMAQ
8:15 Know the Answer?—WBBM
8:20 Strange Tales—WGN
8:45 Nothing But the Truth—WBBM
8:45 Wishing Well—WGN
9:00 Valiant Lady—WBBM WCCO
9:00 Mountain Theater—WLS
9:15 Kitty Foyle—WBBM
9:15 The O'Neills—WMAQ WTMJ
9:30 Safety Court—WJJD
9:30 Songs of a Dreamer—WLS
9:30 Helpmate—WMAQ WTMJ
9:30 Honeymoon Hill—WBBM WCCO
9:45 Treasury Star Parade—WGN
9:45 Bachelor's Children—WBBM
9:45 Lone Journey—WMAQ WTMJ
10:00 Food News Roundup—WBBM
10:00 Katherine & Calliope—WGN
10:00 Eddie and Fannie—WLS
10:00 Road of Life—WMAQ WTMJ
10:15 Breakfast at Sardi's—WLS
10:15 Pat and the Mike—WGN
10:15 Second Husband—WBBM
10:15 Vic & Sade—WMAQ WTMJ
10:30 Snow Village—WMAQ WTMJ
10:30 Bright Horizon—WBBM WCCO
10:45 Madeline Carroll—WIND
10:45 David Harum—WMAQ WTMJ
10:45 Aunt Jenny's Stories—WBBM
11:00 Martha and Helen—WLS
11:00 Guiding Light—WTMJ
11:00 Kate Smith Speaks—WBBM
11:00 Boake Carter—WGN
11:00 Painted Dreams—WMAQ
11:15 Linda's First Love—WGN
11:15 Lonely Women—WTMJ
11:15 Big Sister WBBM WCCO KMOX
11:30 Farm and Home Hour—WCFL
11:30 Romance of Helen Trent—WBBM
11:30 Light of the World—WTMJ
11:45 Reveille Roundup—WMAQ
11:45 Big Sister—WTMJ
11:45 Our Gal Sunday—WBBM WCCO

AFTERNOON

12:00 Dinnerbell Time—WLS
12:00 Woman's Council—WMAQ
12:00 Heinie—WTMJ
12:00 Life Can Be Beautiful—WBBM
12:15 Ma Perkins—WBBM WCCO
12:30 Loop Noonday Service—WJJD
12:30 Vic and Sade—WBBM WCCO
12:45 Sweet River—WMAQ
12:45 The Goldbergs—WBBM
1:00 Light of the World—WMAQ
1:00 The Goldbergs—WTMJ
1:00 The Deacon—WGN
1:00 Young Dr. Malone—WBBM WCCO
1:00 School Time—WLS
1:15 Joyce Jordan—WCCO WBBM
1:15 Painted Dreams—WGN
1:15 Life Can be Beautiful—WTMJ
1:15 Lonely Women—WMAQ
1:30 Guiding Light—WMAQ
1:30 Aunt Jerry—WTMJ
1:30 Editor's Daughter—WGN
1:30 We Love & Learn—WBBM
1:30 Harriet Hosier—WLS
1:45 Hymns of All Churches—WMAQ
1:45 Pepper Young—WBBM
1:45 Vanguard of Victory—WLS
2:00 Morton Downey—WLS
2:00 Mary Marlin—WMAQ WTMJ
2:00 David Harum—WBBM WCCO
2:15 Ma Perkins—WMAQ WTMJ
2:30 Cousin Emmy—WBBM
2:30 Pepper Young—WMAQ WTMJ
2:30 Open House—WGN
2:45 Right to Happiness—WMAQ
3:00 Club Matinee—WENR
3:00 Backstage Wife—WMAQ WTMJ
3:05 Stop, Look, and Listen—WGN
3:15 Stella Dallas—WMAQ WTMJ
3:30 Lorenzo Jones—WMAQ WTMJ
3:45 Facts for Freedom—WBBM
3:45 Widder Brown—WMAQ WTMJ
4:00 When a Girl Marries—WMAQ
4:15 Portia Faces Life—WMAQ
4:30—Just Plain Bill—WMAQ WTMJ
4:45 Front Page Farrell—WMAQ
4:45 Home Fires—WBBM

EVENING

5:00 Music at Five—WMAQ
5:00 Terry & The Pirates—WENR
5:15 At the Duncans—WBBM WCCO
5:15 Jimmy Allen—WENR
5:30 Jack Armstrong—WENR
5:30 Keep Working—WBBM WCCO
5:45 Capt. Midnight—WENR
6:00 Four to Go—WBBM WCCO
6:00 Fred Waring—WTMJ
6:00 Preston Bradley—WGN
6:15 Our Secret Weapon—WBBM
6:30 Lone Ranger—WLS WCFL
6:30 Easy Aces—WBBM KMOX
6:45 Clifton Utley—WMAQ
6:45 Mr. Keen—WBBM KMOX
7:00 Cal Tinney—WGN
7:00 Concert Hour—WMAQ WTMJ
7:00 Kate Smith—WBBM WCCO
7:15 In Person, Dinah Shore—WLS
7:30 Carnegie Hall—WMAQ WTMJ
7:30 Meet Your Navy—WLS
7:30 Thin Man—WBBM WCCO
7:30 Shoot the Works—WGN
8:00 Playhouse—WBBM WCCO KMOX
8:00 Gabriel Heatter—WGN
8:00 Gang Busters—WENR
8:00 Waltz Time—WTMJ WMAQ
8:30 Brewster Boy—WBBM WCCO
8:30 Spotlight Bands—WENR
8:30 People Are Funny—WMAQ
8:30 Double or Nothing—WGN
8:55 Dale Carnegie—WENR
9:00 Boxing Bout—WGN
9:00 Caravan—WBBM WCCO KMOX
9:00 Betty Lou—WMAQ WTMJ
9:00 John Gunther—WENR
9:15 Gracie Fields—WENR
9:30 "Faith on Guadalcanal"—WMAQ
9:30 Alec Templeton—WENR
9:45 Elmer Davis—WENR WBBM
10:00 Fred Waring Orch.—WMAQ
10:00 Most Honored Music—WENR
10:15 Neighborhood Call—WTMJ
10:15 So the Story Goes—WBBM
10:45 Ghost Shift—WBBM
10:30 Rumpus Room—(to 12)—WTMJ
10:30 Lou Breese Orch.—WENR
11:05 Will Osborne Orch.—WBBM
11:05 Joe Reichman Orch.—WGN
11:15 Road to Danger—WMAQ
11:15 Lou Breese Orch.—WENR
11:30 Russ Morgan Orch.—WENR
11:30 Charlie Wright Orch.—WBBM
11:30 Eric Johnson—WGN
11:45 Abe Lyman Orch.—WGN
10:45 Ghost Shift—WBBM
11:45 Dolores and Her Orch.—WMAQ
12:00 Freddy Nagel Orch.—WGN
12:00 Music You Want—WENR
12:00 Nite Watch (to 6)—WIND
12:00 Emile Petti Orch.—WMAQ
12:05 Ray Pearl Orch.—WBBM
12:15 Eddy Howard Orch.—WGN
12:30 Glen Gray Orch.—WENR
12:30 Boyd Raeburn Orch.—WBBM
12:30 Pot Luck—WMAQ
12:30 Art Kassel Orch.—WGN
1:00 Gracie Barrie Orch.—WGN
1:00 Swing Shift (to 3)—WENR

News Broadcasts

TONIGHT

5:00 WIND KMOX
5:00 WCCO WBBM
5:15 WIND WMAQ
5:25 WGN
5:30 WTMJ WCCO
5:30 WIBA WBBM
5:45 WHA WCCO
5:45 WMAQ WBBM
5:55 WIBA
6:00 WLS WIND
6:15 WMAQ WTMJ
6:30 WIND WGN
7:00 WLS WIND
7:30 WCFL WIND
7:55 WBBM KMOX
8:00 WIND WGN
8:15 WGN
8:45 WIND
9:00 WGN WCFL
9:00 WENR WIND
9:45 WENR WBBM
9:45 WCCO KMOX
10:00 WIBU WCFL
10:00 WTMJ WIBA
10:15 WCCO KMOX
10:15 WIBA WMAQ
10:30 WENR
10:30 WGN WBBM
10:40 KMOX
10:45 WENR
11:00 KMOX WIND
11:00 WIBA WBBM
11:00 WGN WENR
11:00 WCCO WMAQ
11:30 WGN
11:55 WIBA WENR
12:00 WBBM WIND
12:55 WMAQ WENR
1:00 WIND
1:30 WGN
2:00 WIND
3:00 WIND
4:00 WIND
5:00 WIND

FRIDAY

A. M.

6:00 WMAQ WIND
6:30 KMOX WTMJ
6:45 WLS
6:55 WMAQ
7:00 KMOX WJJD
7:00 WCFL WBBM
7:00 WIBA WLS
7:00 WTMJ WIND
7:15 WCCO WJJD
7:15 WGN WBBM
7:30 WIBA WTMJ
7:45 WJJD WHA
7:55 WMAQ WTMJ
8:00 WGN WBBM
8:15 WLS
8:25 WTMJ
8:30 WCCO WBBM
8:40 WMAQ
8:45 WIND
9:00 WMAQ WIBA
9:15 WCFL
9:20 WHA
9:25 WGN
9:30 WIND
9:50 WHA
10:00 WIND WJJD
10:30 WIND
10:45 WLS
11:00 WIBA WCFL
11:00 WIND WGN
11:15 WMAQ
11:30 WGN

P. M.

12:00 WCFL WIND
12:00 WIBA WJJD
12:20 WHA
12:30 WMAQ WLS
12:30 WGN WIBA
12:45 KMOX WCCO
12:55 WTMJ
1:00 WIND WCFL
1:30 WCFL WJJD
1:45 WGN
1:55 WLS WTMJ
2:00 WIND WCFL
2:15 KMOX
2:45 WLS
3:00 WCCO WCFL
3:00 WGN WIND
3:15 WBBM
3:55 WENR
4:00 WJJD WIND
4:00 WGN WCFL
4:55 WENR
5:00 WBBM KMOX
5:00 WCCO WIND
5:15 WIND WMAQ
5:25 WGN
5:30 WTMJ WIBA
5:45 WHA WCCO
5:45 WBBM WMAQ
5:55 WIBA
6:00 WLS WIND
6:15 WIBA
6:15 WMAQ WTMJ
6:30 WGN WIND
6:45 WIBA WMAQ
7:00 WLS WIND
7:30 WIND
7:45 WCFL
7:55 WBBM KMOX
8:00 WIND WGN
8:15 WGN
8:45 WIND
9:00 WENR WIND
9:30 WCFL
9:35 WENR
10:00 WIND WTMJ
10:00 WIBA WBBM
10:15 KMOX WMAQ
10:30 WGN WBBM
10:40 KMOX
10:45 WENR
11:00 WCCO KMOX
11:00 WGN WMAQ
11:55 WCFL WIBA
11:55 WMAQ WENR
12:00 WBBM WIND
12:55 WMAQ WENR
1:00 WIND
1:30 WGN
2:00 WIND
3:00 WIND
4:00 WIND
5:00 WIND

Sports Reviews

TONIGHT

5:45 WIBA WTMJ
6:15 WGN
10:00 KMOX

FRIDAY

P. M.

2:30 WIND
3:15 WIND
4:15 WIND
5:45 WIBA WTMJ
6:15 WGN
10:00 KMOX

Markets

FRIDAY

A. M.

6:25 KMOX
11:30 WLS

P. M.

12:45 WGN
12:50 WIBA WLS
1:00 WJJD
1:15 WLS

Hints on Etiquette

If you are in a restaurant and see one of your friends with an escort, don't intrude on them by going over to their table to talk.

Buy U. S. War Bonds and Stamps

Roddick Was First Letterman at Platteville Teachers College

PLATTEVILLE—William Roddick, Sr., Platteville, who recently observed his sixtieth birthday, was the first athlete to win a letter and medal at Platteville State Teachers College. Roddick, a member of the Championship football team of 1905, received the first athletic letter ever awarded by the school.

Mr. Roddick performed during the days of handle bar moustaches, flying tackle and blocks and makeshift equipment, when nearly anything was legal. The forward pass hadn't been developed, and three downs were given to make five yards.

Equalled Track Mark

In 1889, while in the eighth grade, he was granted special permission to play halfback on the team coached by Platteville Normal's "Billy" Williams. At that time Mr. Roddick weighed 137 pounds and was the fastest runner on the squad.

The following year he attended Racine college, where he played halfback on the football team, guard on the cage squad, was a sprinter on the track team and catcher on the baseball club. It was while attending Racine that he equaled the United States Collegiate record in the 100 yard dash at Madison, a run that stood for 37 years, and held the Wisconsin state record from 1902 to 1939.

Was A Boxer

During 1904 and 1905 he attended the Normal School at Platteville and played on the championship football team in 1905. It was the latter year that he was presented with a medal as the outstanding athletic star. He recalls that Charles Fawcett, Platteville captain of the football team and he won the inter-class track meet for their class while competing against groups of nine or 10 students from each of the other classes. Fawcett took the weight events while Roddick ran the sprints.

Always gifted with a natural ability to run, in 76 high school and college races in the 100 and 220 yard dashes he was only beaten three times. One of these defeats was at Northwestern university. In latter years he boxed, both amateur and professional, took part in track meets throughout the state, played semi-pro football, and caught baseball for Fond du Lac in the old Wisconsin-Illinois league.

Also Coached

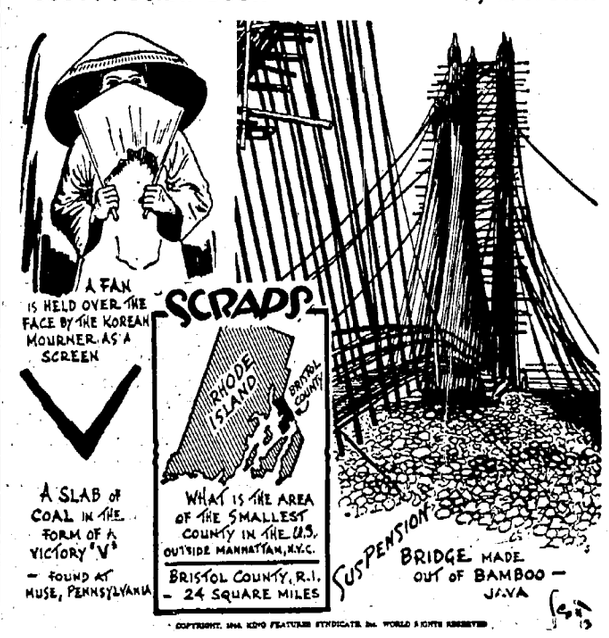
Roddick spent some time in the coaching business at the University of Chattanooga and at the University of the South at Swanee, Tennessee. He was considered one of the most successful coaches Chattanooga ever had.

Such is the record of one of the most versatile and colorful athletes produced in the Platteville Teachers College. He is still interested intensely in sports and especially in many of the youthful stars who attend the Platteville State Teachers College today.

Pirates Sign 2 Hurlers, Lose Rickard to Army

PITTSBURGH — (U.P.) — The Pittsburgh Pirates announced today the signing of two pitchers, Hank Gornicki and Bill Brandt, but revealed that Outfielder Cully Rickard will play for Uncle Sam this year. Rickard, who is married, will report for induction into the army today at his home in Olive Branch, Miss. He was classified 3-A originally, but at the last minute I was selected," he wrote.

SCOTT'S SCRAP BOOK By R. J. Scott



DAN DUNN Secret Operative 48

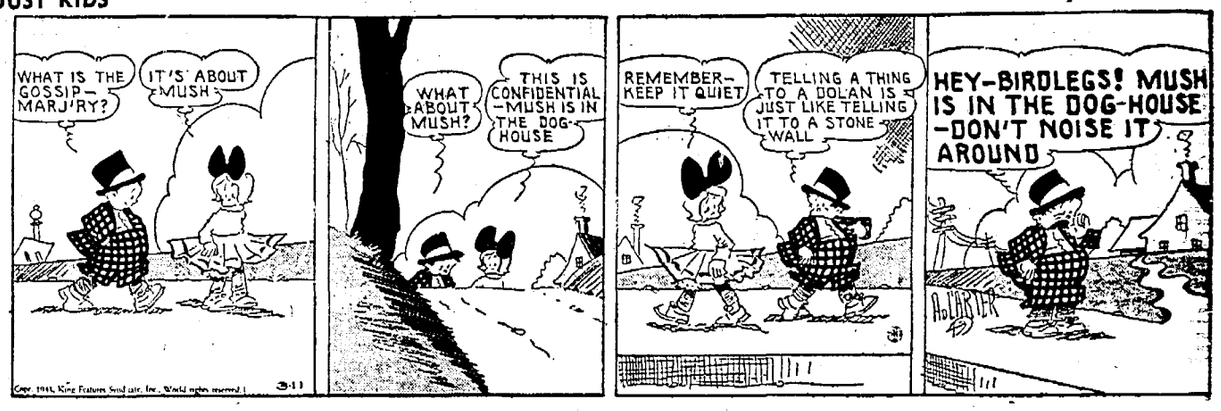
JOE PALOOKA By Ham Fisher

SKIPPY By Percy Crosby

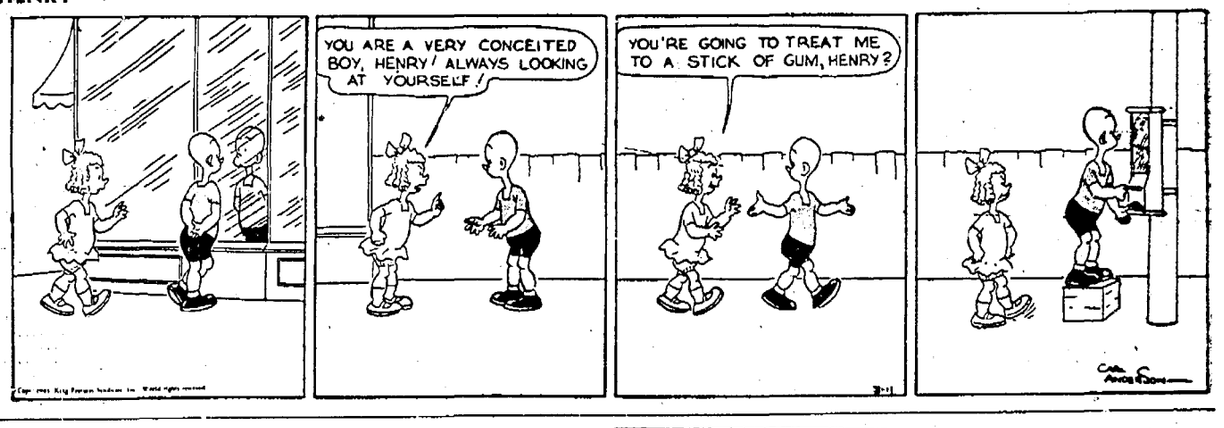
BRICK BRADFORD By William Ritt and Clarence Gray

THE NEBBS By Sol Hess

JUST KIDS By Ad Carter



HENRY By Carl Anderson



Uncle Ray's Corner

FOSSILS TELL STORY OF AGE OF FERNS

AFTER the Age of Fishes there came a long period of time often called the "Age of Ferns."

There is good reason for that name. The period was a time of great growth for ferns. They covered the land, far and wide, even around the Arctic Circle. They were among the very early forms of plant life, and they grow well in the moist, warm climate which the earth then enjoyed.

Many of the ferns were only a foot or two tall, but others grew to a height of many feet. Tallest of all were the tree ferns. They had woody trunks, and sometimes measured scores of feet from the ground to the top.

There were, of course, no people around to measure the tree ferns or anything else. People did not live on earth during the Age of Ferns.

To find out the size, we must depend on tree fossils which have come down to us. These fossils show us tree ferns and other kinds of trees as well.

One fossil tree trunk 114 feet long was found in a coal mine in England. The full height of that tree has been estimated at 135 feet, about the same as the height of an 11-story building.

Sometimes the Age of Ferns is called the "Carboniferous Age." It was a period when vast beds of coal-making plants were laid down.

The story of coal is a long one, and we have little space for it today. Let us simply note that leaves, twigs and ferns are among the things which were pressed down, and after vast ages they were to become coal. Coal contains carbon, and that explains the "Carboniferous" name.

In the Age of Ferns, animals of various kinds were moving from water to land. Such animals had lungs, and could live by breathing air. Their young, however, needed water for life, since they breathed through gills.

Frogs of the modern age are animals like that. Their young are called "tadpoles," and die if they are kept out of water very long. Fullgrown frogs, on the other hand, are at home in the air.

Some animals of that time were far larger than frogs. In some cases they were as large as modern crocodiles and alligators.

(For SCIENCE section of your scrapbook.)

Uncle Ray

Early type of crocodile. B. Another good-sized reptile of that period. C. Large "watersnake."

The International Latitude observatory at Ukiah, Calif., is one of the five in the world, widely distributed in longitude but all situated on the same parallel of latitude.

Tomorrow: Dimetrodons.