(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
WLW	700	WENR	890	WIND	560
WBBM	780	WTMJ	620	WJJD	1160
WCCO	830	KMOX	1120	WLS	890

Tonight's Aces

Back on the Air

8:30 p. m.—Treasure Hour of Song (WGN): new operatic series, featuring Licia Albanese and Francesco Valentino; duet from "Pagliacci," "I'll Follow My Secret Heart," "The Bee," Schubert, "Romance" from "The Desert Song."

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Miscellaneous

9:30 p. m. — March of Time (WMAQ): Carol Bache revealing information about Americans broadcasting Japanese propaganda from Tokyo; Richard Dyer-Bennet, presenting the latest news in song.

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Discussion

7 p. m.—Watch the World Go By (WLS): guest, J. Edgar Hoover, discussing rise of juvenile delinquency . . . **Confidentially Yours** (WGN): Arthur Hale explains why American businessmen are confident of a post-war boom.

7:30 p. m. — America's Town Meeting (WLS): "How Should We Regulate Domestic Aviation After the War," Thurman W. Arnold, associate justice, court of appeals, District of Columbia; Howard S. Palmer, railroad president; Carleton Putnam, airlines president.

9 a. m. — Raymond Clapper (WGN): "What Should Be Done With the Mikado After the War?"

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Variety

6:30 p. m.—"Archie" Gardner (WIBA): substitutes for Bob Burns.

7 p. m.—Baby Snooks (WIBA): out-maneuvers Daddy until he pulls a "pincher" movement.

8 p. m. — Music Hall (WIBA: Frank Morgan, guest.

8:30 p. m. — Joan Davis and Jack Haley (WIBA): plus Herbert Marshall . . . . **Dinah Shore** (WBBM): with Wally Brown, double-talk comedian, Cornelia Otis Skinner, Roland Young; "For the First Time I've Fallen in Love," "Kiss in the Dark," "No Love, No Nothin'," "Shortenin' Bread."

9 p. m. — Abbott and Costello (WIBA): with Lucille Ball.

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Music

8:30 p. m. — Spotlight Bands (WENR): Frankie Masters.

9:30 p. m.—Here's to Romance "Bells of St. Mary's," "My Ideal," "Souvenir," "All Through the Night" . . . **Swing's the Thing** (WGN): "Holiday for Strings," "Louisiana Hay Ride," "All the Things You Are," "Three Little Words," "Do You Ever Think of Me."

10:30 p. m.— Music of the New World (WIBA): San Francisco's "Chile Town."

11:15 p. m.—Design for Listening (WMAQ): "The Old Refrain," "Think of Me," "Gypsy Love Waltzes," "I Got Rhythm."

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Drama

6:30 p. m. — Hollywood Theater (WTMJ): Craig Stevens in "Find the Man."

7:30 p. m. — Aldrich Family (WIBA): complications on a tennis court . . . **Human Adventure** (WGN): tour through a blade of grass, dramatizing story of how the green coloring material in plants is made . . . **Death Valley Days** (WBBM): "The Shipload of Brides."

9 p. m. — The First Line (WBBM): weather as a weapon of the U. S. navy.

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Fridaytime

9 a. m. — School of the Air (WHA): Rhythm and games for Thanksgiving time.

2:30 p. m.—American School of the Air (WBBM): high school pupils discuss "The Road to Berlin.

3 p. m.—Home Front Matinee (WBBM): Dorothy Sarnoff, singing star of "Rosalinda," guest.

5:15 p. m.—Lyn Murray Orchestra (WBBM): Hube Hendrie, baritone, guest: Grainger's "Molly on the Shore," Handel's "Where 'Ere You Walk," medley from "The Merry Widow."

LICIA ALBANESE
WGN at 8:30

WIBA TONIGHT

5:45 Meet the Team
6:00 NBC Waring's Victory Tunes
6:15 Dinner Melody
6:30 NBC "Archie" Gardner
7:00 Baby Snooks
7:30 NBC The Aldrich Family
8:00 NBC Music Hall
8:30 NBC Joan Davis and Jack Haley
9:00 NBC Abbott and Costello
9:30 Melodic Interlude
9:45 Soldiers of the Press
10:00 Night News Edition
10:15 BLUE Raymond Gram Swing
10:30 NBC Music of the New World
11:00 NBC News Report
11:05 Masterworks
11:30 NBC Design for Listening
11:55 NBC News Report

OTHER STATIONS TONIGHT

5:15 University Special—WIBU
5:15 Chick Carter—WGN
5:30 Safety Legion Time—WGN
5:30 Jack Armstrong—WENR
5:45 Capt. Midnight—WENR
5:45 Superman—WIBU WGN
6:00 Fulton Lewis, Jr.—WIBU
6:00 I Love a Mystery—WCCO
6:00 Dr. Preston Bradley—WGN
6:00 Fred Waring Orch.—WTMJ
6:15 Harry James—WBBM WCCO
6:15 Lum and Abner—WIBU
6:30 Easy Aces—WBBM KMOX
6:30 Hollywood Theater—WTMJ
6:30 Supper Interlude—WMAQ
6:45 Confidentially Yours—WIBU
6:45 Discussion Club—WLS
6:45 Mr. Keen—WBBM KMOX
6:45 Guest Star Theater—WGN
6:45 H. V. Kaltenborn—WMAQ
7:00 Variety Show—WBBM WCCO
7:00 Baby Snooks—WTMJ WMAQ
7:00 Confidentially Yours—WGN
7:15 Lum and Abner—WLS
7:15 Gracie Fields—WGN
7:30 The Human Adventure—WGN
7:30 America's Town Meeting—WLS
7:30 Death Valley Days—WBBM
7:30 Aldrich Family—WTMJ WMAQ
8:00 Music Hall—WMAQ WTMJ
8:00 Gabriel Heatter—WIBU WGN
8:00 Major Bowes' Amateurs—WBBM
8:00 America's Town Meeting—WENR
8:30 Treasure Hour of Song—WGN
8:30 Spotlight Bands—WENR
8:30 Joan Davis—WMAQ WTMJ
8:30 Dinah Shore—WBBM WCCO
9:00 Raymond Clapper—WGN
9:00 Treasury Star Parade—WIBU
9:00 Abbot and Costello — WMAQ
9:00 Raymond Gram Swing—WENR
9:00 The First Line—WBBM
9:15 Dale Carnegie—WGN
9:30 March of Time—WMAQ WTMJ
9:30 Wings to Victory—WCFL
9:30 Here's to Romance—WBBM
9:30 Swings the Thing—WGN
10:00 Fulton Lewis, Jr.—WGN
10:00 I Love a Mystery—WBBM
10:00 Fred Waring—WMAQ
10:00 The Symphonette—WENR
10:00 Hockey—WIND
10:15 War Correspondent—WTMJ
10:15 Brazil Presents—WIBU
10:30 "Archie" Gardner—WMAQ
10:30 Toast to Allies—WENR
10:35 Pop Concert—WENR
10:45 Rumpus Room—WTMJ
10:45 Salute to Victory—WBBM
11:05 Open House—WBBM
11:10 Art Kassel Orch.—WGN
11:15 Design for Listening—WMAQ
11:20 Lou Breese Orch.—WENR
11:30 Eddie Oliver Orch.—WENR
11:30 Boyd Raeburn Orch.—WBBM
11:31 Griff Williams Orch.—WGN
12:00 Pot Luck—WMAQ
12:00 Night Watch (to 6)—WIND
12:00 Music You Want—WENR
12:05 Tiny Hill Orch.—WGN
12:05 Jimmy Blade Orch.—WBBM
12:15 Buddy Franklin Orch.—WGN
12:30 Another Dance—WENR
12:30 Charlie Wright Orch—WBBM
12:30 Del Courtney's Orch.—WGN
[illegible] to 3)—WENR

WIBA FRIDAY

MORNING

6:00 Morning Parade
6:25 News Report
6:30 Morning Parade
7:00 NBC World News
7:15 Trading Post
7:30 State Journal News Edition
7:50 Musical Clock
8:30 Inquiring Mike
8:45 Shopping Guide
9:00 Parade of Stars
9:15 NBC The Open Door
9:30 Betty Cass
9:45 NBC First Piano Quartet
10:00 NBC Road of Life
10:15 Treasury Parade
10:30 News
10:40 Interlude
10:45 NBC David Harum
11:00 Linda's First Love
11:15 Mary Foster
11:30 Farm Roundup

AFTERNOON

12:00 News Report
12:05 Farm Roundup
12:30 Noon News Edition
12:50 Interlude
1:00 NBC Guiding Light
1:15 NBC Lonely Women
1:30 NBC Light of the World
1:45 Poland vs. Hitler
2:00 NBC A Woman of America
2:15 NBC Ma Perkins
2:30 Music of the Day
2:45 NBC Right to Happiness
3:00 BLUE Frolics
3:15 NBC Stella Dallas
3:30 NBC Lorenzo Jones
3:45 NBC Young Widder Brown
4:00 Campus Jamboree
4:45 School and Home
5:00 NBC News Report
5:05 Rhythm Rangers
5:30 News Edition
5:45 Meet the Team

EVENING

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 NBC People Are Funny
9:00 NBC Amos 'n' Andy
9:30 Truax Field Calling (DB)
10:00 Night News Edition
10:15 Melodic Interlude
10:30 South American Magic
10:45 Let's Learn Spanish
11:00 NBC News Report
11:05 Masterworks
11:30 NBC Thomas Peluso Orch.
11:55 NBC News Report

WHA FRIDAY

7:30 Band Wagon.
7:45 Morning News.
7:58 WHA Program Review.
8:00 Music You Want.
8:30 Morning Melodies.
9:00 Ruth Andrews, organist.
9:15 News and Views.
9:30 Rhythm and Games: "At Thanksgiving Time".
9:50 News of Wisconsin.
9:57 Weather Report: Eric Miller, meteorologist.
10:00: Homemakers' Program: How Can I Help? . . . Dr. Llewellyn R. Cole; Education in Time of War . . . Blanche Mitchell.
10:35 Musical Moments.
10:45 French Program.
11:00 Background of World War II: Prof. Chester Easum
11:50 Noon Musicale
12:20 Noon News
12:30 Farm Program: Population Trends of Crop Pests, E. L. Chambers; The Farm Question Box, Rupert Rasmussen
1:00 Chapter a Day
1:30 Book Trails: "Kobi", Conrad and Mary Buff
2:00 Following Congress
2:30 Music of the Masters
3:30 Reading for Wartime
4:00 Alpine Melodies
4:30 Treasury Star Parade
4:45 Adventure Stories: "The Lost Lagoon"
4:55 Afternoon News
5:00 Masterworks of Music

OTHER STATIONS FRIDAY

—MORNING—

6:00 Farm News—WLS
6:00 Top o' the Morning—WTMJ
6:15 Everett Mitchell—WMAQ
6:15 Morning Devotions—WLS
6:30 Back to the Bible—WIND
7:00 Pats Gallicchio—WMAQ
7:01 Farm Service—WIBU
7:45 Mountain Theater—WLS
8:00 Musical Clock—WIBU
8:00 Your Neighbor—WMAQ
8:15 Know the Answer?—WBBM
8:30 Breakfast Club—WLS
9:00 Lora Lawton—WMAQ WTMJ
9:00 Valiant Lady—WBBM WCCO
9:00 Songs of a Dreamer—WLS
9:15 Open Door—WTMJ WMAQ
9:15 Katty Foyle—WBBM WCCO
9:30 Helpmate—WMAQ WTMJ
9:30 Honeymoon Hill—WBBM WCCO
9:45 Bachelor's Children—WBBM
9:45 Star Playhouse—WMAQ
10:00 Road of Life—WMAQ WTMJ
10:00 Breakfast at Sardi's—WLS
10:15 Second Husband—WBBM WCCO
10:15 Vic & Sade—WMAQ WTMJ
10:30 Safety Court—WJJD
10:30 The Brave Tomorrow—WMAQ
10:30 Bright Horizon—WBBM WCCO
10:45 David Harum—WMAQ WTMJ
10:45 Aunt Jenny's Stories—WBBM
11:00 The Editor's Daughter—WMAQ
11:00 Martha and Helen—WLS
11:00 Guiding Light—WTMJ
11:00 Kate Smith Speaks—WBBM
11:00 Boake Carter—WGN WIBU
11:15 Judy and Jane—WGN
11:15 Linda's First Love—WMAQ
11:15 Lonely Women—WTMJ
11:15 Big Sister WBBM WCCO KMOX
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 Elizabeth Hart—WMAQ
12:00 Dinnerbell Time—WLS
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 Bernadine Flynn—WBBM
12:45 Ranch House Jim—WMAQ
12:45 The Goldbergs—WBBM WCCO
1:00 Farm Service—WIBU
1:00 Guiding Light—WMAQ
1:00 Life Can Be Beautiful—WTMJ
1:00 Young Dr. Malone—WBBM WCCO
1:15 Bond Wagon—WGN
1:15 Joyce Jordan—WCCO WBBM
1:15 Lonely Women—WMAQ
1:15 School Time—WLS
1:30 Light of the World—WMAQ
1:30 Aunt Jenny—WTMJ
1:30 We Love & Learn—WBBM
1:45 Eddie and Fannie—WLS
1:45 Perry Mason—WBBM
1:45 Betty Crocker—WMAQ
2:00 Mary Marlin—WBBM
2:00 A Woman of America—WMAQ
2:00 Morton Downey—WLS
2:15 Ma Perkins—WMAQ WTMJ
2:30 Just a Few Words—WGN
2:30 School of the Air—WBBM
2:30 Pepper Young—WMAQ WTMJ
2:45 Right to Happiness—WMAQ
3:00 Gospel Hour—WIBU
3:00 Blue Frolics—WENR
3:00 Home Front Matinee—WBBM
3:00 Backstage Wife—WMAQ WTMJ
3:15 Stella Dallas—WMAQ WTMJ
3:30 Full Speed Ahead—WGN WIBU
3:30 Lorenzo Jones—WMAQ WTMJ
3:45 Widder Brown—WMAQ WTMJ
4:00 Mystery Chef—WENR
4:00 When a Girl Marries—WMAQ
4:15 Russian War Relief—WIBU
4:15 Portia Faces Life—WMAQ
4:15 Malcolm Claire—WENR
4:30 Cinnamore Bear—WENR
4:30 Just Plain Bill—WMAQ WTMJ
4:45 Front Page Farrell—WMAQ
4:45 American Women—WBBM
4:45 Dick Tracy—WENR
4:45 Parade of Bands—WIBU
4:30 Chick Carter—WIBU

—EVENING—

5:00 Terry & The Pirates—WENR
5:00 Prayer: Quizmaster—WIBU
5:00 Billie the Brownie—WTMJ
5:15 Chick Carter—WGN
5:15 Lyn Murray Orch.—WBBM
5:15 University Special—WIBU
5:15 Jimmy Allen's Adventure—WENR
5:30 Safety Legion Time—WGN
5:30 Jack Armstrong—WENR
5:45 Captain Midnight—WENR
5:45 Superman—WGN WIBU
6:00 Dr. Preston Bradley—WGN
6:00 Fulton Lewis, Jr.—WIBU
6:00 Fred Waring—WTMJ
6:00 I Love a Mystery—WCCO
6:15 Dateline—WBBM WCCO
6:15 Lum and Abner—WIBU
6:30 Supper Interlude—WMAQ
6:30 Lone Ranger—WLS
6:30 Easy Aces—WBBM KMOX
6:45 Lion's Roar—WGN
6:45 Navy Music School—WIBU
6:45 H. V. Kaltenborn—WMAQ
6:45 Mr Keen—WBBM KMOX
7:00 Concert Hour—WMAQ WTMJ
7:00 Kate Smith Hour—WBBM
7:15 Gracie Fields—WGN
7:15 Parker Family—WLS
7:30 Carnegie Hall—WMAQ WTMJ
7:30 Meet Your Navy—WLS
8:00 Gabriel Heatter—WIBU WGN
8:00 Playhouse—WBBM WCCO KMOX
8:00 Gang Busters—WENR
8:00 Waltz Time—WMAQ WTMJ
8:15 Gracie Fields—WIBU
8:30 Spotlight Bands—WENR
8:30 Brewster Boy—WBBM WCCO
8:30 People Are Funny—WMAQ
8:30 Double or Nothing—WGN WIBU
8:55 Story Dramas—WENR
9:00 Boxing: Montgomery vs. Jack—WGN
9:00 Durante and Moore—WBBM
9:00 Amos 'n' Andy—WTMJ WMAQ
9:00 John Gunther—WENR
9:30 Bill Stern—WMAQ
9:30 Stage Door Canteen—WBBM
9:30 National Lawyers' Dinner—WCFL
9:45 Rep. Christian Herter—WMAQ
10:00 Symphonette—WENR
10:00 Fulton Lewis, Jr.—WGN
10:00 I Love a Mystery—WBBM
10:00 Fred Waring Orch.—WMAQ
10:15 So the Story Goes—WBBM
10:30 The Vagabonds—WMAQ
10:30 Toast to Allies—WENR
10:35 Pop Concert—WENR
10:45 Arch Ward Sports—WGN
10:45 Rumpus Room—WTMJ
10:45 Serenade in Swing—WBBM
11:05 Jan Garber Orch.—WBBM
11:10 Griff Williams Orch.—WGN
11:20 Lou Breese Orch.—WENR
11:15 Road to Danger—WMAQ
11:30 Tiny Hill Orch.—WGN
11:30 Eddie Oliver Orch.—WENR
11:30 Charlie Wright Orch.—WBBM
11:45 Little Night Music—WMAQ
12:00 Music You Want—WENR
12:00 Nite Watch (to 6)—WIND
12:00 Emile Petti Orch.—WMAQ
12:05 Buddy Franklin Orch.—WGN
12:05 Ray Pearl Orch.—WBBM
12:30 Charlie Spivak Orch.—WENR
12:30 Boyd Raeburn Orch.—WBBM
12:30 Pot Luck—WMAQ
12:30 Art Kassel Orch.—WGN
12:45 Del Courtney Orch.—WGN
1:00 Swing Shift (to 3)—WENR

NEWS BROADCASTS

TONIGHT

5:00 WMAQ WGN
5:00 WIND
5:00 WCCO WBBM
5:15 WMAQ
5:30 KMOX
5:30 WBBM WCCO
5:30 WIBA WTMJ
5:45 WCCO
5:45 WMAQ WBBM
5:55 WBBM
6:00 WBBM WIBU
6:00 WLS WIND
6:05 WBBM
6:15 WMAQ WTMJ
6:30 WIND WCFL
6:30 WIBU WGN
6:45 WMAQ
7:00 WIND WLS
7:25 WIBU
7:30 WIND
7:55 WBBM KMOX
8:00 WIBU WGN
8:15 WGN
8:30 WCFL
8:45 WIND
8:55 WENR
9:00 WIBA WMAQ
9:15 WHA WCFL
9:30 WLS WIND
9:40 WGN
9:50 WHA
10:00 WIND
10:00 WIBU WJJD
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10:45 WLS
11:00 WIND WGN
11:00 WIBU WJJD
11:30 WMAQ WGN

P. M.

12:00 WIBA WJJD
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2:00 WIND WIBU
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3:55 WENR
4:00 WGN WCFL
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4:55 WHA
5:00 WMAQ WGN
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5:00 WBBM KMOX
5:15 WMAQ
5:30 WBBM
5:30 WTMJ WIBA
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10:45 WENR WMAQ
11:00 WCCO WBBM
11:00 WTMJ KMOX
11:00 WIND WIBU
11:00 WIBA WENR
11:00 WGN WMAQ
11:55 WCFL WIBA
11:55 WMAQ WENR
12:00 WGN WBBM
12:55 WMAQ WENR
1:00 WGN WIND
2:00 WIND (also 3, 4, 5)

FRIDAY

A. M.

3:00
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P. M.

5:45
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11:55
12:00
12:55
1:00
2:00 (also 3, 4, 5)

SPORTS REVIEWS

TONIGHT

5:15 WIND
5:45 WIBA WTMJ
6:00 KMOX
11:15 WENR

FRIDAY

P. M.

2:15 WIND
3:15 WIND
4:15 WIND
5:15 WIND
5:45 WIBA WTMJ
6:00 KMOX
9:30 WTMJ WMAQ
10:15 WTMJ
10:45 WGN
11:15 WENR

MARKETS

FRIDAY

A. M.

6:25 KMOX
11:30 WLS
11:45 WLS

P. M.

12:00 WIBU
12:10 WIBU
12:15 WIBA
12:35 WIBU
12:45 WGN
12:50 WLS
1:10 WLS

271 Inoculations Given in Monroe

MONROE — At the free clinic at the high school, Monroe, Monday morning, 109 children were given the second innoculation against diphtheria, and 162 children and adults were vaccinated against smallpox. Drs. L. E. Creasy and Harold E. Fillbach were assisted by Mmes. Theodore Burgy, Robert Rote, J. T. Etter, and Martha Grether, county nurse. Similar clinics were scheduled for Juda and Brodhead Tuesday and Brooklyn and Albany today.

• TONIGHT! •
ABBOTT AND COSTELLO
CAMEL CIGARETTES
WIBA—9 P. M.

$25 WAR BOND FREE

to School, Club, Child or Adult Turning in the Greatest Poundage of

SCRAP PAPER

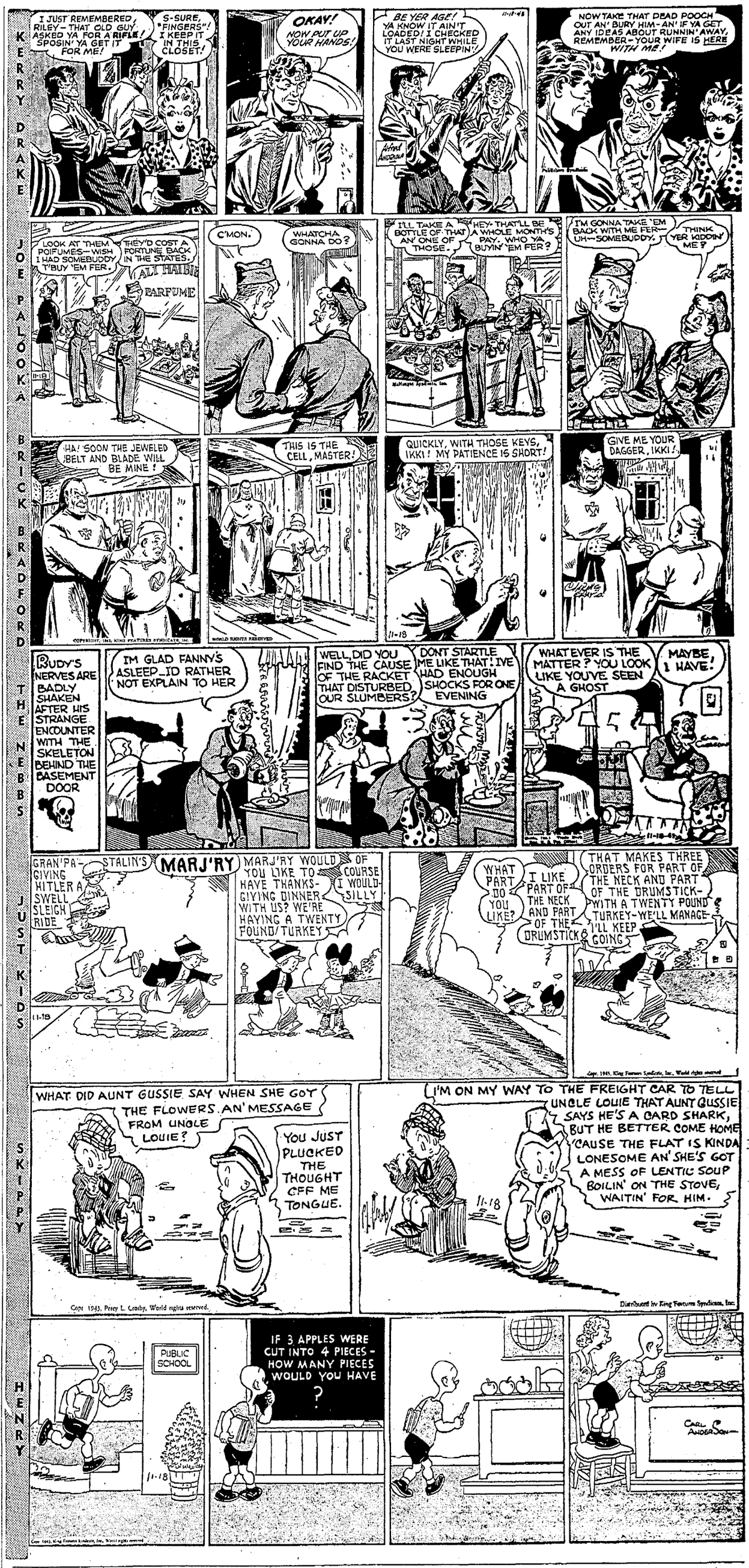
The Temkin Iron & Metal Co. will give a $25 War Bond FREE to the group or individual turning in the greatest amount of SCRAP PAPER. Contest winner will be announced in this paper Tues., Nov. 23. Watch for it.

Contest closes Sat., Nov. 20

Phone G. 4684—We pick up 500 Lbs. of paper or more

TEMKIN IRON & METAL CO.
20 North Murray Street

SCOTT'S SCRAP BOOK By R. J. Scott



Uncle Ray's Corner

SOME COMETS TRAVEL FAR BEYOND ORBIT OF PLUTO

FROM time to time a very bright comet appears in the sky, but many comets can be seen only with the help of a telescope. For every large comet which people talk about there are dozens of smaller ones which astronomers study.

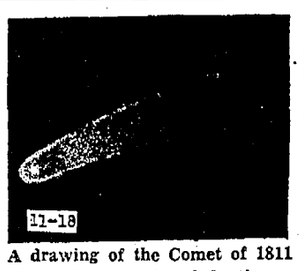
About 70 comets are known to have a period of less than 80 years. All of these travel inside our solar system, never going as far from the sun as the planet Pluto. Among these are Halley's comet and Encke's comet.

Encke's comet has been seen scores of times since 1786. It comes back to the sight of telescopes once every three and one-third years.

Encke's comet goes around the sun at a distance of 33,000,000 miles. Then it shoots toward a point almost 400,000,000 miles from the sun. This comet is classed as one of "Jupiter's family." There are about 50 other comets which go within range of Jupiter, then return and travel around the sun again.

Besides the short-period comets, there are others which travel far beyond the farthest planet. Many of these are of great size and all of them take plenty of time to make their journeys. They may appear once and then be gone for 1,000 years or more!

The past century is famed for its large and beautiful comets. Among the important ones are those which appeared in 1811, 1843, 1858, 1861, 1881 and 1882.



A drawing of the Comet of 1811 made by an artist of the time.

The one which appeared in 1858 is known as Donati's comet and was first reported by the Italian whose name it bears. The path was figured out, and the comet is expected to appear again in about 1,915 years, which is quite a long time to wait.

The Comet of 1811 has an even longer period. It is not expected back until about the year 4,811. The farther a comet goes from the sun the slower it tends to travel. This one must slow down to less than a mile a second after passing the orbit of Pluto.

It is possible that some comets go so far out into space that they never come back to the solar system.

(For SCIENCE section of your scrapbook.)

Uncle Ray

Tomorrow :Are Comets Dangerous?