(Programs listed in The Wisconsin 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 | KMOX | 1120 |
| WHA | 970 | WIBU | 1240 | WGN | 720 |
| WLW | 700 | WENR | 890 | WIND | 560 |
| WBBM | 780 | WTMJ | 620 | WJJD | 1160 |
| WCCO | 830 | WMAQ | 670 | WLS | 890 |

## Tonight's Aces

### Variety

**6:30 p. m. — Everything for the Boys** (WIBA): Dick Haymes, singer, with Jimmy Durante as guest.

**7:30 p. m. — Alan Young** (WLS): reverts to the medieval and relives career of his armor-laden ancestor.

**8 p. m.—Gracie Fields** (WENR): tells of her first formal gown; Fred Bady delivers a lecture on Thanksgiving; Gracie sings "Home, Sweet Home." . . . **Burns and Allen** (WBBM): have Franchot Tone as guest.

**9 p. m. — Bob Hope** (WIBA): from Navy Pier, Chicago, with Kay Kyser.

**9:30 p. m.—Hildegarde** (WIBA): guests, Billie Burke, comedienne, Harry Savoy, comedian, and Phil Brito, singer.

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### Miscellaneous

**8:55 p. m. — Storyteller** (WENR): "One of the Boys," tells how a man redeems himself after cowardice on field of battle.

**9 p. m. — Service to the Front** (WBBM): story of how the Information and Education branch of Army Service Forces teaches GIs foreign languages; Maj. Henry Lee Smith, officer in command of language section, guest.

**9:30 p. m. — Let Yourself Go** (WENR): guest, Elsa Maxwell.

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### Music

**6:30 p. m. — American Melody Hour** (WBBM): "Always," "White Christmas," "I Dream of You," "Dance With a Dolly."

**7:30 p. m. — Roy Rogers Show** (WGN): new weekly program of western music, with Pat Friday and the Sons of the Pioneers; "Day After Forever," "Don't Fence Me In," "Cool Waters," "Thanksgiving."

**8:30 p. m. — Symphony Hall** (WGN): "Symphony No. 2," Sibelius; Overture to "Merry Wives of Windsor," Nicholai, and a scherzo by Mendelssohn . . . **Spotlight Bands** (WENR): Xavier Cugat.

**11:05 p. m. — Jimmy Hilliard's Orchestra** (WBBM): "March of the Toys," "On the Alamo," "Always," "Is You Is," Gould's "Pavanne."

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### Drama

**7 p. m. — Big Town** (WBBM): "Baby Bandit," story of juvenile delinquency.

ROY ROGERS
*WCN at 7:30*

**7:30 p. m. — Theater of Romance** (WBBM): Shirley Booth in "Bachelor Mother."

**8 p. m. — Mystery Theater** (WMAQ): S. Wier Mitchell's "Dilemma."

**8:30 p. m. — This Is My Best** (WBBM): Orson Welles in Jules Verne's "Around the World in 80 Days."

**9:30 p. m. — Crime Files of Flamond** (WGN): "The Case of the Quiet Noise."

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### Wednesdaytime

**9 a. m.—My True Story** (WLS): "A Corner of Heaven."

**10:45 a. m. — What's Your Idea?** (WIBU, WGN): Dr. Albert Edward Wiggam, psychiatrist, reveals sensational new method of breaking bad habits.

**12 m. — Elizabeth Hart Presents** (WMAQ): Brig. Gen. Leo M. Boyle.

**1:45 p. m. — Hymns of All Churches** (WMAQ): features Jewish hymn, "Take Unto You"

**2:30 p. m. — American School of the Air** (WBBM): "New Horizons" presents "Field of Battle," program showing how French resisted the Germans during the occupation of France.

**3:15 p. m. — Jack Berch Show** (WENR): "Charlie, My Boy," "Confessing," "O, Dem Golden Slippers," "Mama Inez."

**5:15 p. m. — Lyn Murray Orchestra** (WBBM): with Thelma Altman, soprano; "Songs My Mother Taught Me," "Prayeer for Thanksgiving," "Holiday for Strings," "This Is My Country."

## WIBA TONIGHT

5:00 The Balladeers.
5:30 News Edition.
5:45 Meet the Team.
6:00 NBC Music Shop.
6:15 Dinner Melody.
6:30 NBC Dick Haymes & Orchestra.
7:00 NBC Johnny Presents.
7:30 NBC A Date With Judy.
8:00 Romantic Melody.
8:30 NBC Fibber & Molly.
9:00 NBC Bob Hope Show.
9:30 NBC Hildegarde.
10:00 Night News Edition.
10:15 BLUE Raymond Gram Swing.
10:30 NBC Author's Playhouse.
11:00 NBC News Report.
11:05 NBC Roy Shield & Company.
11:55 NBC News Report.

## OTHER STATIONS TONIGHT

5:00 Terry and the Pirates—WENR
5:15 Jimmy Allen—WGN
5:15 Dick Tracy—WENR
5:15 University Special—WIBU
5:15 Edwin C. Hill—WBBM WCCO
5:19 Billie the Brownie—WTMJ
5:30 Fiesta—WIBU
5:30 Superman—WGN
5:30 Jack Armstrong—WENR
5:45 Tom Mix—WGN WIBU
5:45 Capt. Midnight—WENR
6:00 I Love a Mystery—WCCO
6:00 Fulton Lewis, Jr.—WIBU
6:00 Music Shop—WTMJ
6:00 Dr. Preston Bradley—WGN
6:00 Jim Blade Music—WMAQ
6:05 Dinning Sisters—WBBM
6:15 Music That Satisfies—WBBM
6:15 Lum and Abner—WIBU
6:30 Hollywood Show—WLS
6:30 Those Who Serve—WTMJ
6:30 American Melody Hour—WBBM
6:45 Bing Sings—WIBU
6:45 H. V. Kaltenborn—WMAQ
7:00 Johnny Presents—WTMJ WMAQ
7:00 Confidentially Yours — WGN WIBU
7:00 Big Town—WBBM WCCO
7:15 Sunny Skylar—WGN
7:15 Lum and Abner—WLS
7:15 Your Reporter—WIBU
7:30 Roy Rogers—WGN
7:30 Alan Young Show—WLS
7:30 Date With Judy—WTMJ WMAQ
7:30 Theater of Romance—WBBM
7:30 Victory Jamboree—WIBU
8:00 Mystery Theater—WTMJ WMAQ
8:00 Burns and Allen—WBBM WCCO
8:00 Gracie Fields Show—WENR
8:00 Gabriel Heater—WGN WIBU
8:15 Screen Test—WGN
8:15 Book of Melody—WIBU
8:30 Symphony Hall—WGN
8:30 This is My Best—WBBM
8:30 American Forum—WIBU
8:30 Fibber McGee—WTMJ WMAQ
8:30 Spotlight Bands—WENR
8:50 Storyteller—WENR
9:00 Service to the Front—WBBM
9:00 Bob Hope—WTMJ WMAQ
9:00 Raymond Gram Swing—WENR
9:15 Paul Schubert—WIBU
9:30 Crime Files of Flamond—WGN
9:30 Let Yourself Go—WENR
9:30 Congress Speaks—WBBM
9:45 Behind the Scenes at CBS
9:30 Hildegarde—WTMJ WMAQ
10:30 Everything for the Boys—WMAQ
10:00 Music Shop—WMAQ
10:00 I Love a Mystery—WBBM
10:15 King's Jester and Janette—WBBM
10:30 Shep Fields—WIBU
10:50 Rumpus Room—WTMJ
10:45 Salute to Victory—WBBM
11:10 Jimmy Hilliard Orch.—WBBM
11:15 Gay Claridge Orch.—WENR
11:15 Don Reid Orch.—WGN
11:30 Roy Shield and Co.—WMAQ
11:30 Gene Krupa Orch.—WBBM
11:30 Henry Brandon Orch.—WBBM
11:30 Art Kassel Orch.—WGN
11:45 Les Crosley Orch.—WBBM
12:00 News and Music—WMAQ
12:00 Nite Watch (to 5:30)—WIND
12:05 Bill Barto Orch.—WBBM
12:05 Benny Strong Orch.—WGN
12:15 Don Norman Show—WENR
12:30 Charlie Agnew Orch.—WBBM
12:30 Eddie Ashman Orch.—WGN
12:45 The Feeling Is Mutual—WGN
1:00 News and Music—WBBM

## WIBA WEDNESDAY

**MORNING**

6:00 Morning Parade
6:30 News Report
6:35 Morning Variety
7:00 NBC World News Roundup
7:15 Musical Clock
7:30 State Journal News Edition
7:50 Musical Clock
8:30 Contests
8:35 Interlude
8:45 Shopping Guide
9:00 The Trading Post
9:15 NBC Reveille Roundup
9:30 Ration Board Program
9:45 Betty Cass
10:00 NBC Road of Life
10:15 Home Front Quartermaster
10:30 News
10:40 Interlude
10:45 NBC David Harum
11:00 Linda's First Love
11:15 Mary Foster
11:30 The Farm Roundup

**AFTERNOON**

12:00 News Report
12:05 Farm Roundup
12:15 Farm Service
12:30 Noon News Edition
12:50 Interlude
1:00 NBC Guiding Light
1:15 NBC Today's Children
1:30 NBC Women in White
1:45 Matinee
2:00 NBC A Woman of America
2:15 NBC Ma Perkins
2:30 News Report
2:35 Music of the Day
2:45 NBC Right to Happiness
3:00 NBC Backstage Wife
3:15 NBC Stella Dallas
3:30 NBC Lorenzo Jones
3:45 NBC Young Widder Brown
4:00 Interlude
4:15 Music for School and Home
4:30 The Campus Jamboree
5:00 The Balladeers
5:30 News Edition
5:45 Meet the Team

**EVENING**

6:00 Music Shop
6:15 NBC News of the World
6:30 Dinner Melody
6:45 NBC H. V. Kaltenborn
7:00 NBC Mr. and Mrs. North
7:30 NBC Carton of Cheer
8:00 NBC The Eddie Cantor Show
8:30 NBC Mr. District Attorney
9:00 NBC Kay Kyser College
10:00 Night News Edition
10:15 BLUE Raymond Gram Swing
10:30 NBC Arthur Hopkins Presents
11:30 NBC Design for Dancing
11:55 NBC News Report

## WHA WEDNESDAY

7:30 Band Wagon
7:45 Morning News
7:58 WHA Program Review
8:00 Music You Want: Beethoven—Symphony No. 3
8:30 Morning Melodies
9:15 News and Views
9:30 Young Experimenters; "Chemicals Control Fire"
9:50 Piano Interlude
9:57 Weather Report
10:00 Homemakers' Program: The Big Dinner, Mrs. Miriam Krebs; Stencil It!, Ruth F. Danielson
10:30 Letters from Fighting Badgers
10:45 March Time
11:00 Social History of U. S.—Prof. Merle Curti
11:50 Noon Musicale
12:20 Noon News
12:30 Farm Program: How We Grow Apples, H. J. Rahmlow interviews a fruit grower; Ewes Need Good Feed in Winter, Burl Winchester
1:00 Chapter a Day
1:30 Journeys in Music Land
2:00 Our Children
2:30 Music of the Masters
3:30 Truax Field Calling
4:00 Excursions in Science
4:15 Treasury Salute
4:30 Adventure Stories: "Tyll Ulenspiegel's Merry Pranks"
4:45 Afternoon News
5:00 Masterworks of Music
5:29 Sign Off

## OTHER STATIONS WEDNESDAY

**—MORNING—**

5:00 Farm Service—WLS
6:00 Top o' The Morning—WTMJ
6:15 Evelett Mitchell—WMAQ
6:30 Back to the Bible—WIND
7:00 Morning Devotions—WLS
7:00 Pats Gallicchio—WMAQ
7:01 Farm Service—WIBU
7:30 Musical Clock—WIBU
8:00 Your Neighbor—WMAQ
8:30 Breakfast Club—WLS
8:00 Wisconsin Weather—WIBU
9:00 My True Story—WLS
9:00 Haven of Rest—WJJD
9:00 Lora Lawton—WMAQ WTMJ
9:00 Valiant Lady—WBBM WCCO
9:05 Hebrew Christian Hour—WIBU
9:15 Light of the World—WBBM
9:30 Finders Keepers—WMAQ WTMJ
9:30 This Changing World—WBBM
9:35 Shady Valley Folk—WIBU
9:45 Listening Post—WLS
9:45 Bachelor's Children—WBBM
10:00 Amanda—WBBM WCCO
10:00 Road of Life—WMAQ WTMJ
10:00 Breakfast at Sardi's—WLS
10:15 WMC Program—WIBU
10:15 Rosemary—WMAQ WTMJ
10:15 Second Husband—WBBM WCCO
10:30 Star Playhouse—WMAQ
10:30 Bright Horizon—WBBM WCCO
10:45 What's Your Idea? —WIBU WGN
10:45 David Harum—WMAQ WTMJ
10:45 Aunt Jenny's Stories—WBBM
10:55 Lanny and Ginger—WIBU
11:00 The Editor's Daughter—WMAQ
11:00 Kate Smith Speaks—WBBM
11:00 Guiding Light—WTMJ
11:00 Martha and Helen—WLS
11:15 Linda's First Love—WMAQ
11:15 Big Sister—WBBM WCCO KMOX
11:15 Rhymster Time—WGN
11:15 Today's Children—WTMJ
11:20 Farm and Home Hour—WIBU
11:30 Women in White—WTMJ
11:30 Helen Trent—WBBM WCCO
11:45 Revellie Roundup—WMAQ
11:45 Our Gal Sunday—WBBM WCCO
11:45 Farm Front—WIBU

**—AFTERNOON—**

12:00 Elizabeth Hart Presents—WMAQ
12:00 Life Can Me Beautiful—WBBM
12:00 Dinnerbell Time—WLS
12:00 The Grenadiers—WTMJ
12:00 Farm Hour—WIBU
12:15 Terry's House Party—WGN
12:15 Ma Perkins—WCCO WBBM
12:30 Bond Wagon—WGN
12:30 Bernadine Flynn—WBBM
12:30 Loop Noonday Service—WJJD
12:45 The Goldbergs—WBBM WCCO
1:00 Joyce Jordan—WCCO WBBM
1:00 Farm Service—WIBU
1:00 Life Can Be Beautiful—WTMJ
1:00 Guiding Light—WMAQ
1:15 Two on a Clue—WBBM
1:15 Si Hays—WIBU
1:15 School Time—WLS
1:15 Jane Cowl—WGN
1:15 Today's Children—WMAQ
1:15 The Goldbergs—WTMJ
1:30 Glamor Manor—WLS
1:30 Woman in White—WMAQ
1:30 Aunt Jenny—WTMJ
1:30 Young Dr. Malone—WBBM
1:45 Real Stories—WIBU
1:45 Hymns of All Churches—WMAQ
1:45 Perry Mason—WBBM KMOX
2:00 Mary Marlin—WBBM WCCO
2:00 Morton Downey—WLS
2:00 Woman of America—WMAQ
2:15 Tena and Tim—WBBM WCCO
2:15 Hollywood Star Time—WLS
2:15 Ma Perkins—WMAQ WTMJ
2:30 Rev. E. O. Geontz—WIBU
2:30 American School of the Air—WBBM
3:30 Ida Bailey Allen—WGN
2:30 Pepper Young—WMAQ WTMJ
2:45 Right to Happiness—WMAQ
3:00 Backstage Wife—WMAQ WTMJ
3:00 Walter Compton—WIBU
3:15 Stella Dallas—WMAQ WTMJ
3:15 Jack Berch—WENR
3:15 Consumers' Column—WIBU
3:30 Lorenzo Jones—WMAQ WTMJ
3:30 Judy and Jane—WGN
3:45 Widder Brown—WTMJ WMAQ
4:00 When A Girl Marries—WMAQ
4:00 East Side Serenade—WIBU
4:15 Cinnamon Bear—WGN
4:15 Portia Faces Life—WMAQ
4:30 Gold Coast Rhythm—WBBM
4:30 Malcolm Claire—WENR
4:30 Parade of Bands—WIBU
4:30 Just Plain Bill—WMAQ WTMJ
4:45 Evelyn Winters—WBBM
4:45 Hop Harrigan—WENR
4:45 Front Page Farrell—WMAQ
4:45 Parade of Bands—WIBU

**—EVENING—**

5:00 Terry and the Pirates—WENR
5:15 Dick Tracy—WENR
5:15 Lyn Murray Orch.—WBBM
5:15 University Special—WIBU
5:15 Jimmy Allen—WGN
5:19 Billie the Brownie—WTMJ
5:30 Fiesta—WIBU
5:30 Superman—WGN
5:30 Jack Armstrang—WENR
5:45 Tom Mix—WIBU WGN
5:45 Capt. Midnight—WENR
6:00 I Love a Mystery—WCCO
6:00 Dr. Preston Bradley—WGN
6:00 Music Shop—WTMJ
6:00 Fulton Lewis, Jr.—WIBU
6:00 Jim Blade Music—WMAQ
6:05 Dinning Sisters—WBBM
6:15 Music That Satisfies—WBBM
6:30 Supper Interlude—WMAQ
6:30 Easy Aces—WBBM KMOX
6:30 Lone Ranger—WLS
6:45 Bing Sings—WIBU
6:45 H. V. Kaltenborn—WMAQ
7:00 Jack Carson—WBBM WCCO
7:00 Mr. & Mrs. North—WMAQ WTMJ
7:15 Your Reporter—WIBU
7:15 Sunny Skylar—WGN
7:15 Lum and Abner—WLS
7:30 Victory Jamboree—WIBU
7:30 Dr. Christian—WBBM WCCO
7:30 My Best Girl—WLS
7:30 Stop That Villain—WGN
7:30 Carton of Cheer—WMAQ
8:00 Eddie Cantor—WTMJ WMAQ
8:00 Inner Sanctum—WCCO WBBM
8:00 Gabriel Heatter—WGN WIBU
8:00 Dunninger—WENR
8:15 Book of Melody—WIBU
8:15 Screen Test—WGN
8:30 Spotlight Bands—WENR
8:30 Mr. District Attorney—WMAQ
8:30 Cisco Kid—WGN WIBU
8:30 Which Is Which—WBBM
8:55 Storyteller—WENR
9:00 Sumner Welles—WIBU WGN
9:00 Great Moments in Music—WBBM
9:00 Kay Kyser—WTMJ WMAQ
9:15 Bundles for America—WIBU
9:30 Nelson Eddy—WBBM WCCO
9:30 Northerners—WGN
9:30 Scramby Amby—WENR
10:00 Answer Man—WGN
10:00 I Love a Mystery—WBBM
10:00 Music Shop—WMAQ
10:15 So the Story Goes—WBBM
10:30 Just for Fun—WMAQ
10:45 Carmen Cavallero—WGN
10:50 Rumpus Room—WTMJ
11:05 Petrillo and Janette—WBBM
11:15 Benny Strong—WGN
11:15 Gay Claridge—WENR
11:30 Author's Playhouse—WMAQ
11:30 Tommy Tucker Orch.—WBBM
11:30 Harmony Hall—WGN
11:30 Emil Vanda Orch.—WENR
11:45 Les Crosley Orch.—WBBM
12:00 Musical Nightcap—WMAQ
12:00 Nite Watch (to 6)—WIND
12:05 Chuck Foster Orch.—WGN
12:05 Bill Barto Orch.—WBBM
12:15 Don Norman Show—WENR
12:30 Gene Krupa—WBBM
1:00 News and Music—WBBM

## NEWS BROADCASTS

**TONIGHT**

5:00 KMOX WBBM 9:00 WENR
5:00 WMAQ WGN 10:00 WENR
5:00 WIBU 10:00 WGN WIBU
5:05 WMAQ 10:00 WCCO WCFL
5:15 WBBM WCCO 10:00 WIBA WTMJ
5:30 WIBA WBBM 10:15 KMOX WCCO
5:30 WTMJ WCCO 10:15 WMAQ WIBA
5:45 WBBM WMAQ 10:30 WBBM WENR
5:55 WBBM 10:30 WGN
6:00 WLS 11:00 WIBA
6:00 WBBM WIBU 11:00 WMAQ
6:15 WTMJ WMAQ 11:00 WENR WGN
6:30 WIBU WGN 11:00 WIBM WTMJ
6:45 WMAQ 11:30 WIND
7:00 WIND WLS 11:55 WIBA WTMJ
7:20 WIBU 12:00 WMAQ
7:30 WIND WCFL 12:00 WGN WBBM
7:55 KMOX WBBM 1:00 WGN WBBM
8:00 WGN WCFL 1:00 WIND Also 2 3, 4, 5)

**A. M.**

5:30 WMAQ WIND 2:30 WIBA
6:00 WIND WMAQ 2:45 WLS
6:05 WTMJ 3:00 WBBM
6:30 WIBA WTMJ 3:00 WGN WIBU
6:45 WGN WLS 3:15 WBBM
6:45 WMAQ 3:30 WENR
6:55 WBBM 4:00 WJJD WIND
7:00 WIBA 4:00 WGN
7:00 WIND KMOX 4:15 WENR
7:00 WCFL WCCO 4:45 WHA
7:00 WBBM WTMJ 5:00 WIBU
7:15 WGN WBBM 5:00 WCCO WBBM
7:30 WIBA WTMJ 5:00 WGN WMAQ
7:45 WCFL WHA 5:05 WMAQ
7:55 WMAQ WTMJ 5:30 WCCO WBBM
8:00 WJJD WIND 5:30 WTMJ WIBA
8:00 WBBM WGN 5:45 WMAQ WBBM
8:15 WLS 5:55 WBBM
8:25 WTMJ 6:00 WBBM
8:30 WIBU 6:00 WLS WIND
8:30 WMAQ WIND 6:15 WIBA
8:35 WMAQ 6:15 WMAQ WTMJ
8:45 WIND WBBM 6:30 WIBU WGN
9:00 WGN 6:45 WIBA WMAQ
9:15 WHA WCFL 7:00 WLS
9:15 WTMJ WMAQ 7:00 WGN WIND
9:30 WLS WIND 7:20 WIBU
9:40 WGN 7:30 WIND WCFL
10:00 WIBU WCFL 7:55 KMOX WBBM
10:00 WIND WJJD 8:00 WGN WIND
10:30 WIBA 8:00 WIBU WCFL
10:30 WLS WIBU 8:30 WCFL
10:45 WLS 9:00 WENR
11:00 WIBU 9:00 WCFL WIND
11:00 WIND WGN 9:15 WENR
11:00 WJJD WCFL 10:00 WTMJ WIBA
11:15 WIBU 10:00 WIBU WENR
11:30 WMAQ WGN 10:15 WCFL
11:45 WTMJ 10:15 WMAQ WIBA
**P. M.** 10:30 WGN WENR
12:00 WCFL WIND 10:30 WBBM
12:00 WIBA WJJD 11:00 WGN
12:15 WIBU 11:00 WENR WBBM
12:20 WHA 11:00 WMAQ
12:30 WMAQ 11:00 WIND WCCO
12:30 WIBA WBBM 11:00 WTMJ KMOX
12:30 WCCO WLS 11:30 WIND
12:45 WMAQ 11:55 WTMJ WIBA
12:55 WTMJ 12:00 WGN WBBM
1:00 WGN WIND 12:00 WIND WENR
1:45 WGN 12:55 WENR
1:55 WTMJ 1:00 WBBM WGN
2:00 WCFL 1:00 WIND (Also 2 3, 4, 5)

## SPORTS REVIEWS

**TONIGHT**

5:45 WIBA WTMJ 9:00 WIND
6:00 KMOX 9:15 WIND
6:25 WCFL

**WEDNESDAY**

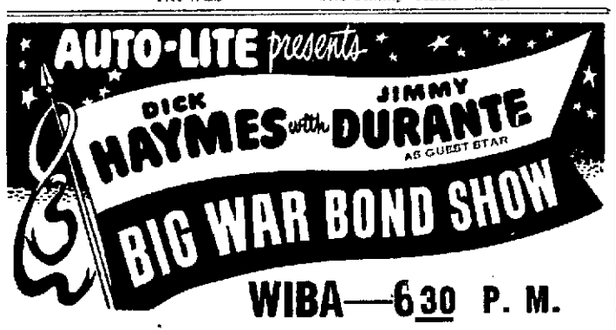
**P. M.** 6:25 WCFL
5:45 WTMJ WIBA 9:00 WIND
6:00 KMOX 11:15 WMAQ

## MARKETS

**WEDNESDAY**

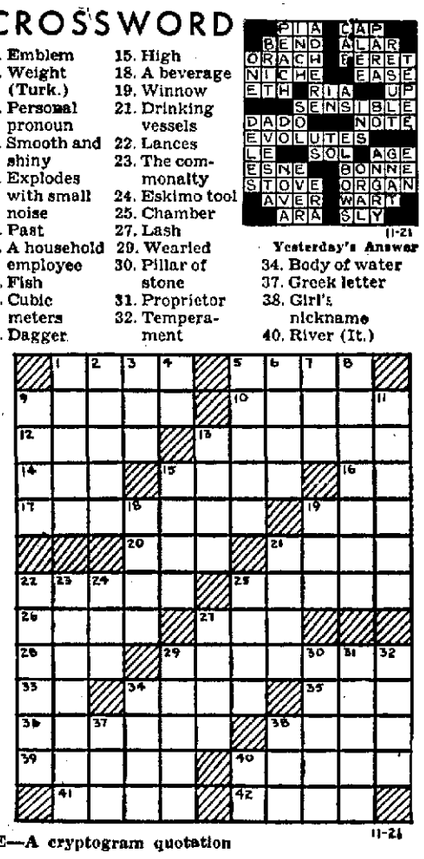
**A. M.**
6:25 KMOX
11:30 WLS
11:45 WLS

**P. M.**
12:00 WIBU
12:10 WIBU
12:15 WIBA
12:40 WIBU
12:50 WLS
1:10 WLS



## DAILY CROSSWORD



**ACROSS**
1. Particle
5. Resorts
9. To reek
10. Theater seats
12. Cod-like fish
13. Send out, as from a country
14. Devoured
15. Cravats
16. Norse god
17. Country N. of Germany
19. Distant
20. Each (Scot.)
21. Walking stick
22. Short oar
25. Dwarves
26. U. S. president
27. A dandy
28. Ostrichlike bird
29. Flower
33. Part of "to be"
34. Earth
35. A number
36. Turning, as a wheel
38. Game of chance
39. Reptile
40. Grew white
41. Prosecuted judicially
42. Inspection in open court (L)

**DOWN**
1. Daunt (archaic)
2. Emblem
3. Weight (Turk.)
4. Personal pronoun
5. Smooth and shiny
6. Explodes with small noise
7. Past
8. A household employee
9. Fish
11. Cubic meters
13. Dagger
14. High
18. A beverage
19. Winnow
21. Drinking vessels
22. Lances
23. The commonalty
24. Eskimo tool
25. Chamber
27. Lash
29. Wearied
30. Pillar of stone
31. Proprietor
32. Temperament
34. Body of water
37. Greek letter
38. Girl's nickname
40. River (It.)

11-21

Yesterday's Answer

CRYPTOQUOTE—A cryptogram quotation

P D X I Z D M C N X E K X C G X F P D X J G X K S X G J L G P C K Z C I G E K X C G X — P D M J G M Y.

Yesterday's Cryptoquote: MUCH KNOWLEDGE OF THINGS DIVINE ESCAPES US THROUGH WANT OF FAITH—HERACLITUS

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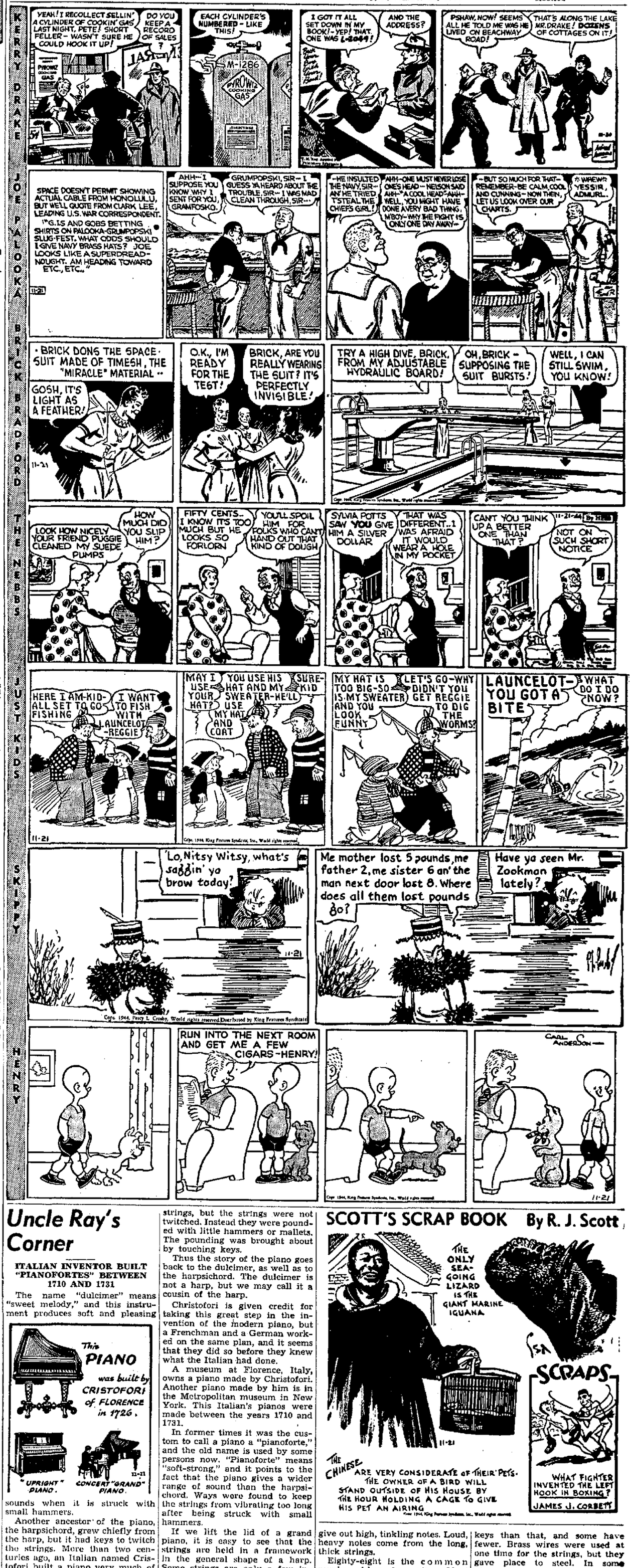
## Blakely Starts Duties As Agriculture Teacher

VIOLA — Clair Blakely, a teacher for five years before he moved to Viola to take charge of his father's farm, Monday begin duties as agriculture teacher in the Viola public schools. He fills the position made vacant by the resignation of L. A. Davis, now assistant Dodge county agent.

Cyprus' first plywood factory has just started production.




## Uncle Ray's Corner

**ITALIAN INVENTOR BUILT "PIANOFORTES" BETWEEN 1710 AND 1731**

The name "dulcimer" means "sweet melody," and this instrument produces soft and pleasing sounds when it is struck with small hammers.




Another ancestor of the piano, the harpsichord, grew chiefly from the harp, but it had keys to twitch the strings. More than two centuries ago, an Italian named Cristofori built a piano very much of the modern type. Like the harpsichord, it had a keyboard and strings, but the strings were not twitched. Instead they were pounded with little hammers or mallets. The pounding was brought about by touching keys.

Thus the story of the piano goes back to the dulcimer, as well as to the harpsichord. The dulcimer is not a harp, but we may call it a cousin of the harp.

Christofori is given credit for taking this great step in the invention of the modern piano, but a Frenchman and a German worked on the same plan, and it seems that they did so before they knew what the Italian had done.

A museum at Florence, Italy, owns a piano made by Christofori. Another piano made by him is in the Metropolitan museum in New York. This Italian's pianos were made between the years 1710 and 1731.

In former times it was the custom to call a piano a "pianoforte," and the old name is used by some persons now. "Pianoforte" means "soft-strong," and it points to the fact that the piano gives a wider range of sound than the harpsichord. Ways were found to keep the strings from vibrating too long after being struck with small hammers.

If we lift the lid of a grand piano, it is easy to see that the strings are held in a framework in the general shape of a harp. Some strings are only a few inches long, but others have a length of several feet. The short strings give out high, tinkling notes. Loud, heavy notes come from the long, thick strings.

Eighty-eight is the common number of keys for a piano, 52 of them being white and 36 black. Some pianos, however, have more keys than that, and some have fewer. Brass wires were used at one time for the strings, but they gave place to steel. In some pianos, fine copper wire is wrapped around the strings which produce the heavy base notes.

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